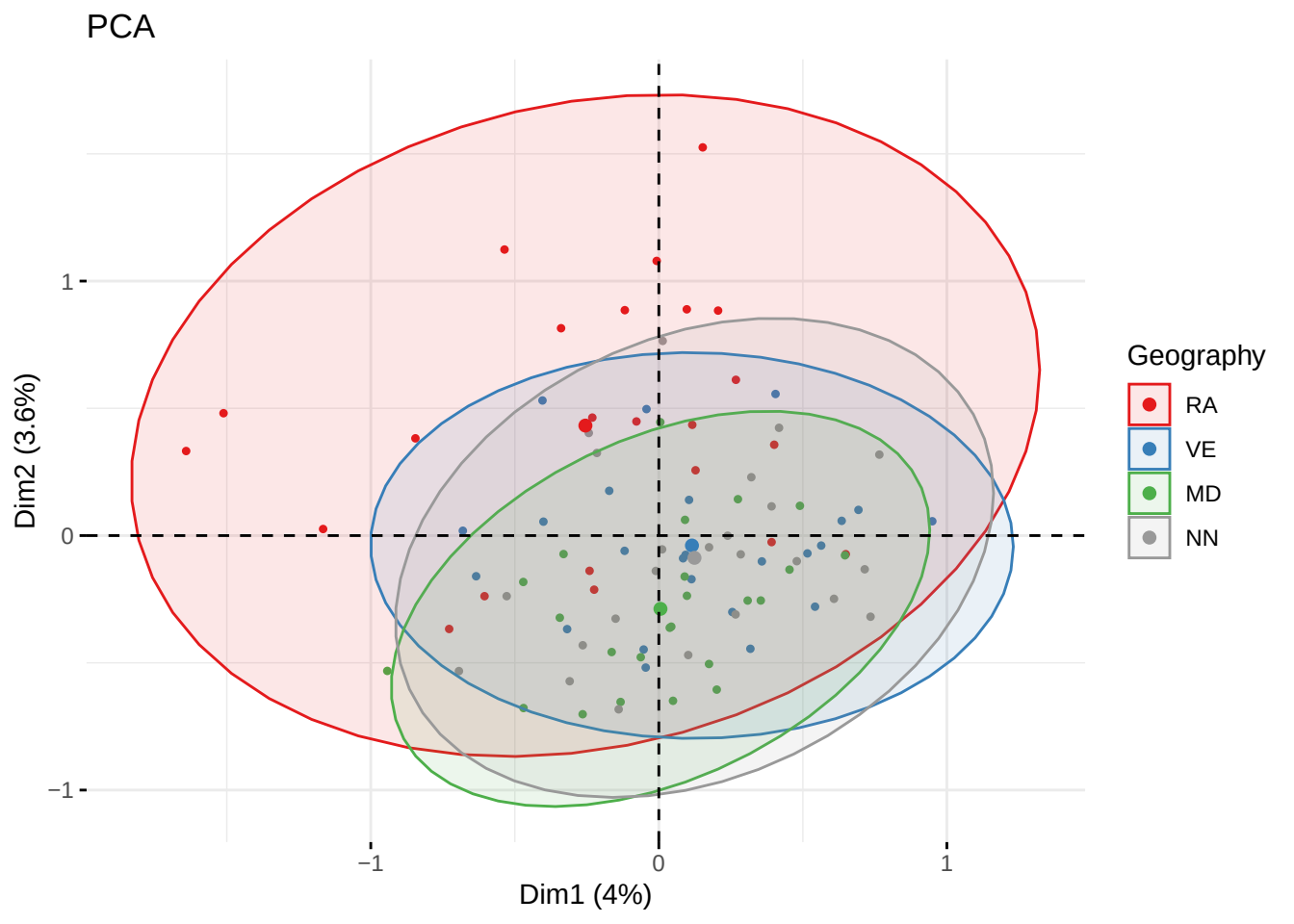
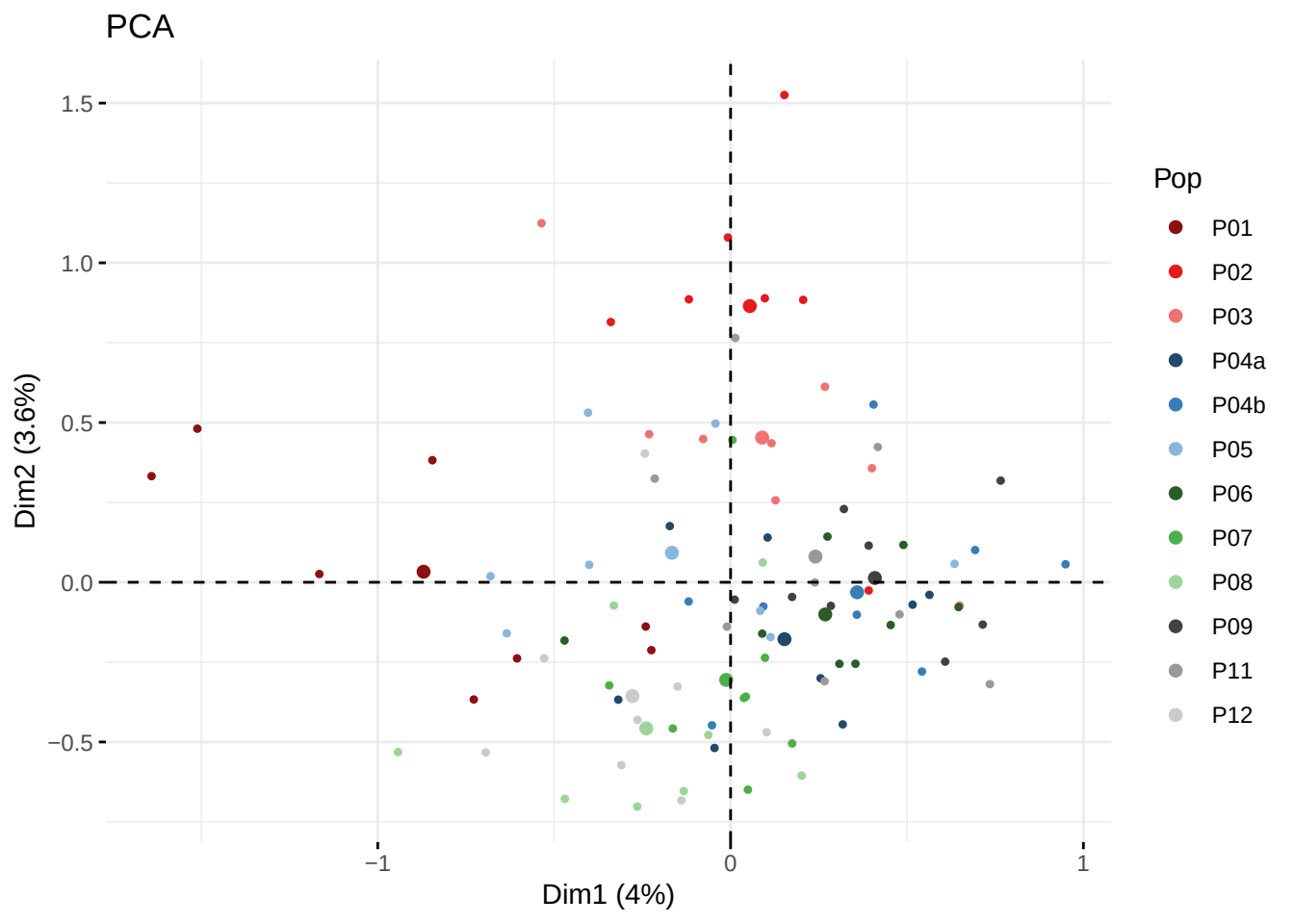
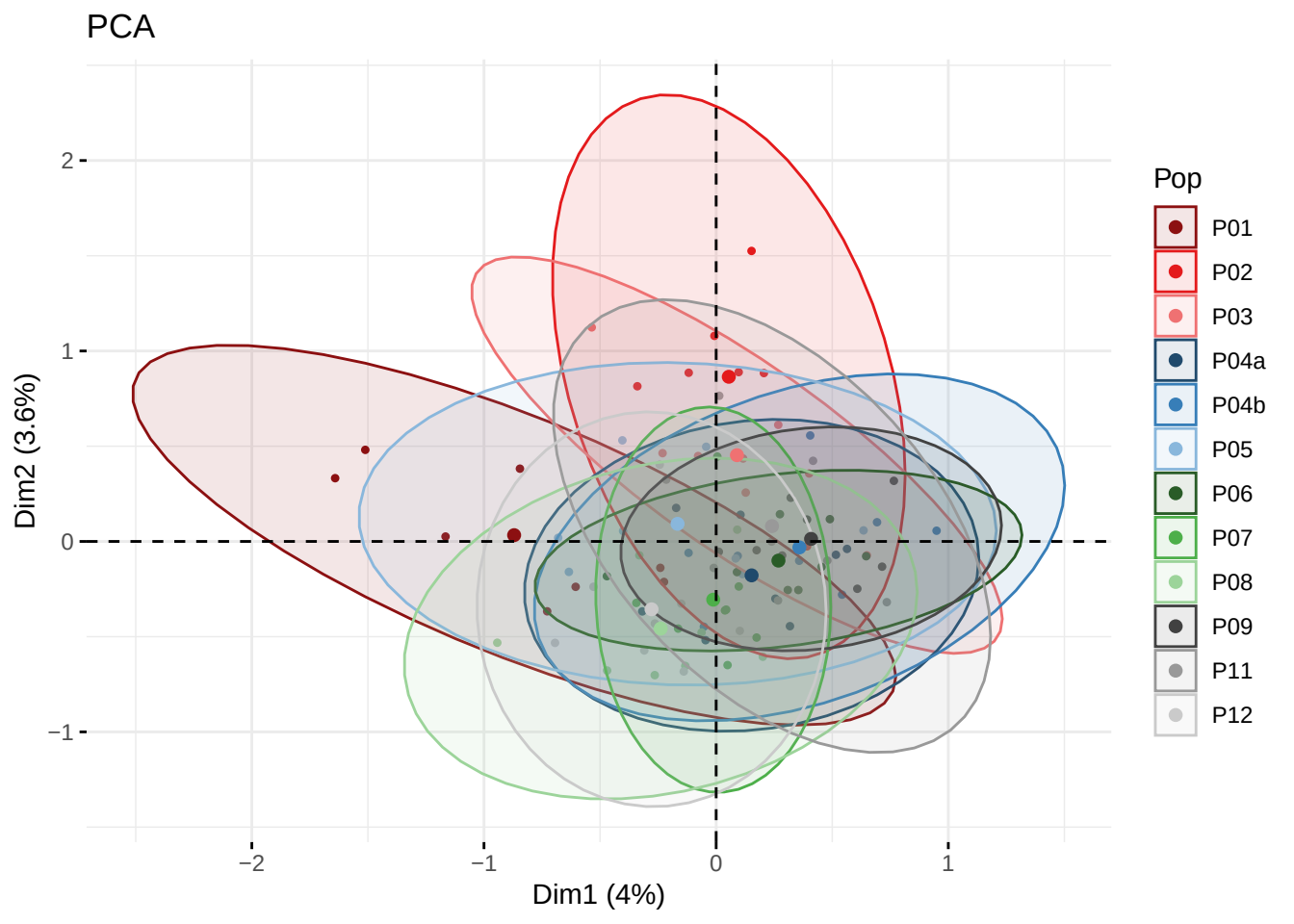
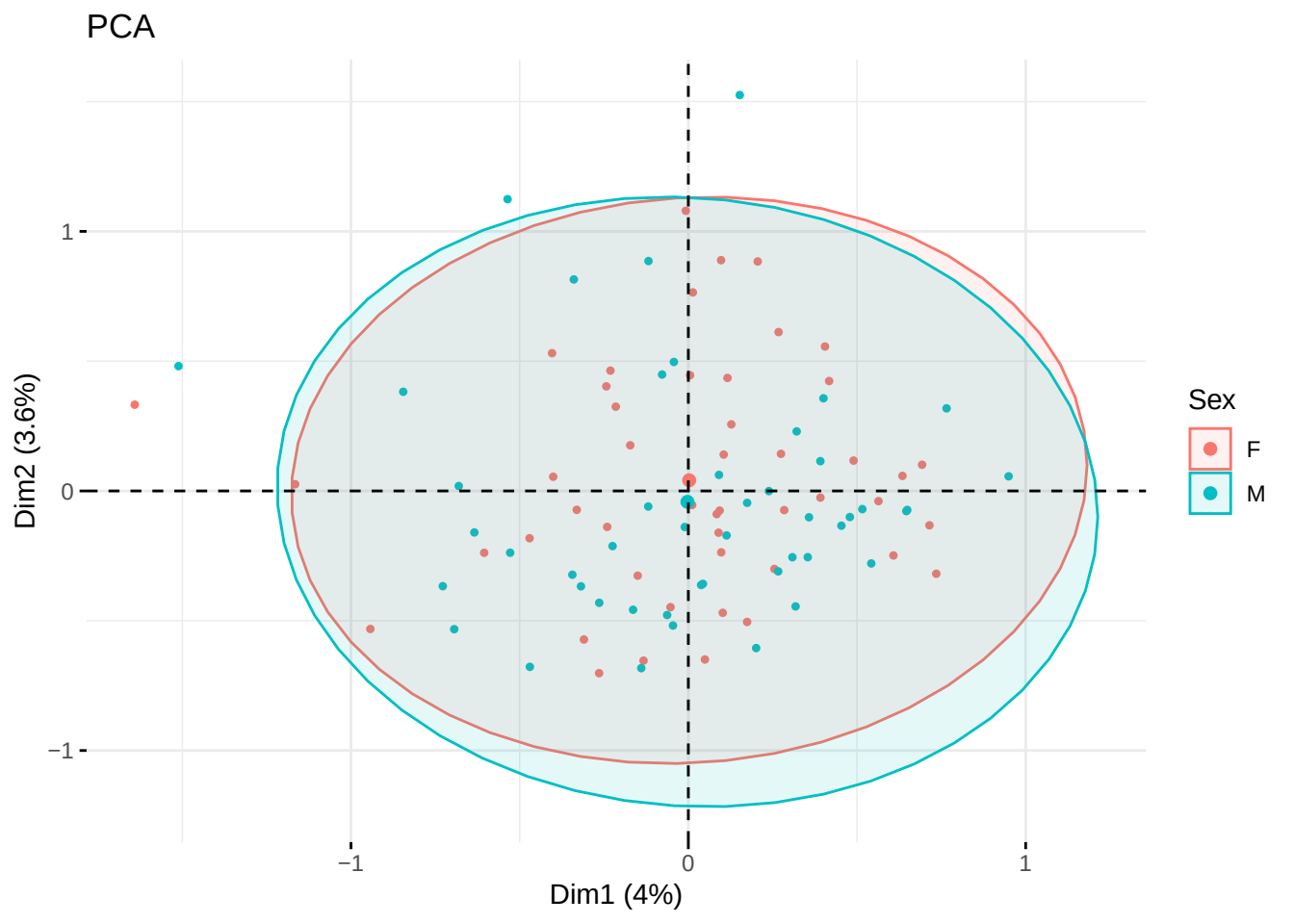
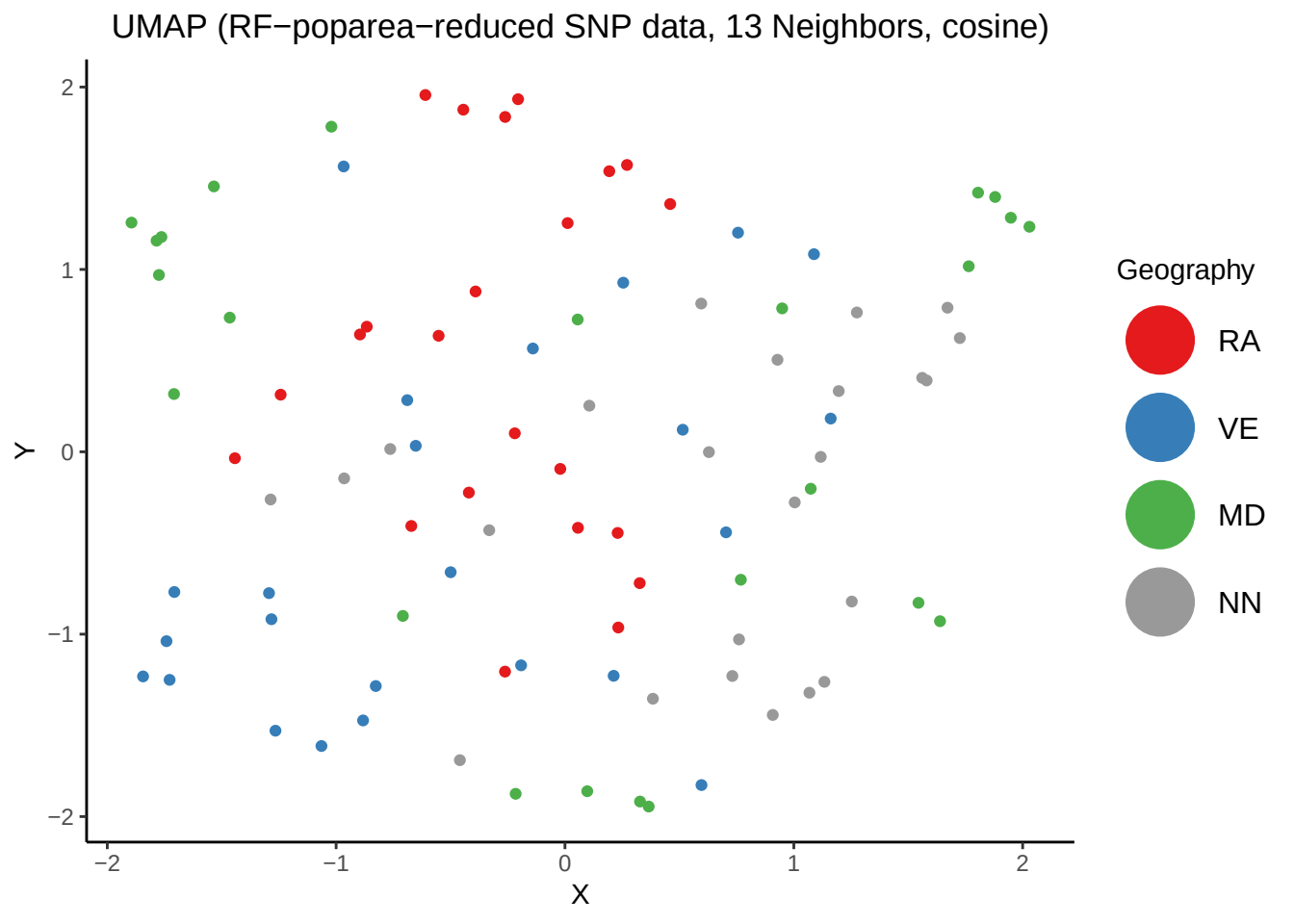
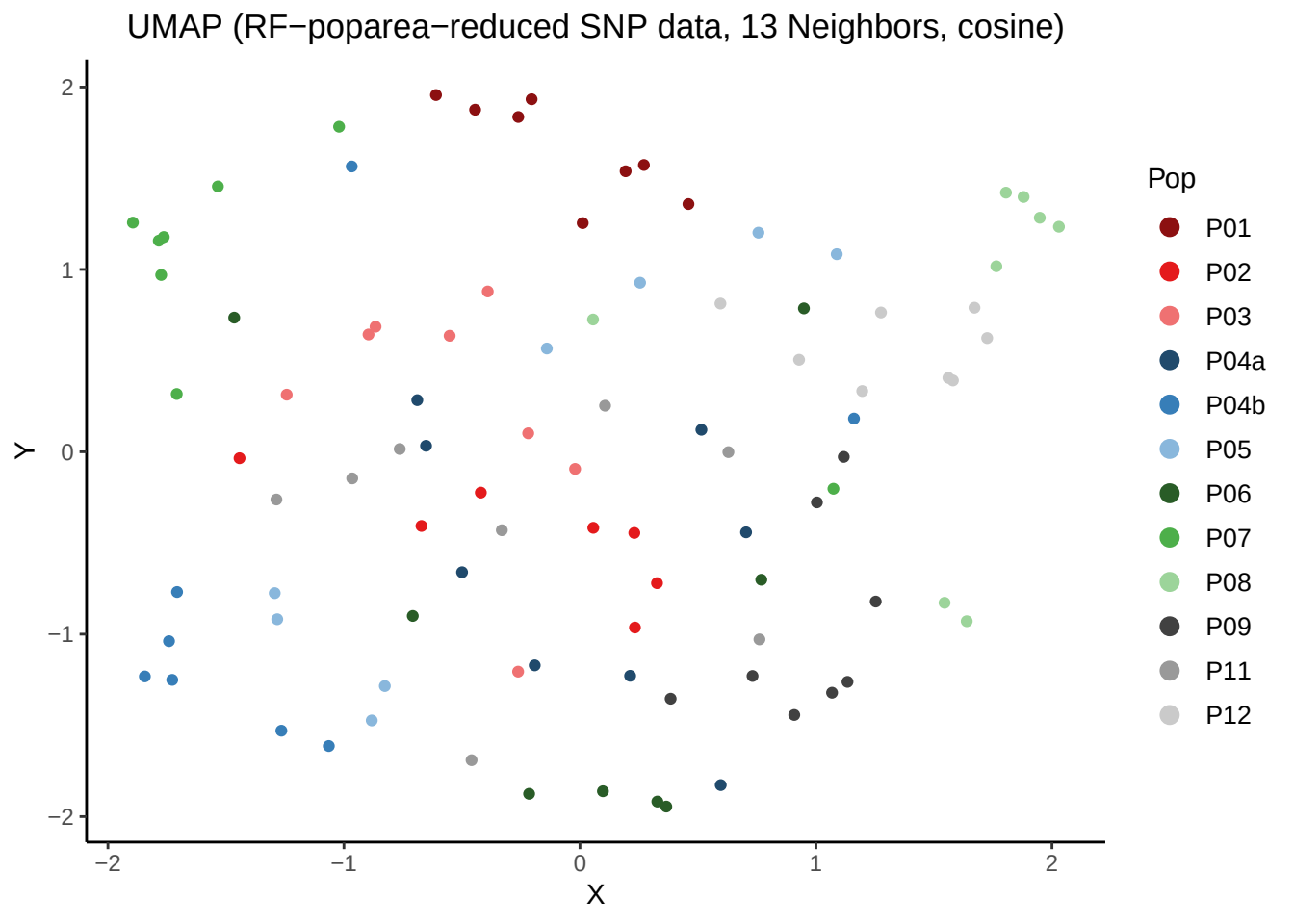

PCA
Dim2 (3.6%)
Dim1 (4%)
1
0
−1
−1
0
1
Geography
RA
VE
MD
NN

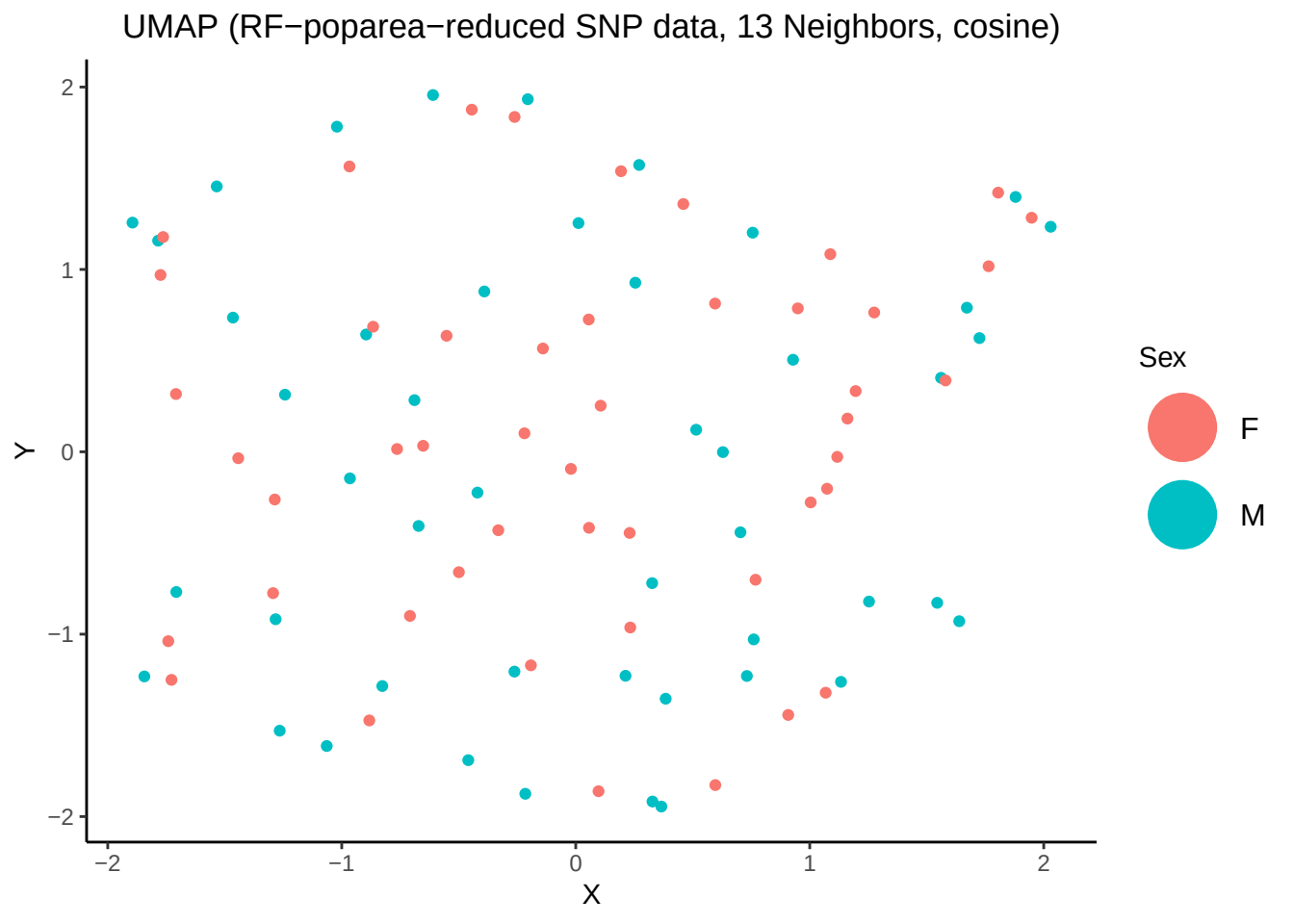

PCA
1.5
1.0
0.5
0.0
−0.5
Dim2 (3.6%)
−1
0
1
Dim1 (4%)
Pop
P01
P02
P03
P04a
P04b
P05
P06
P07
P08
P09
P11
P12

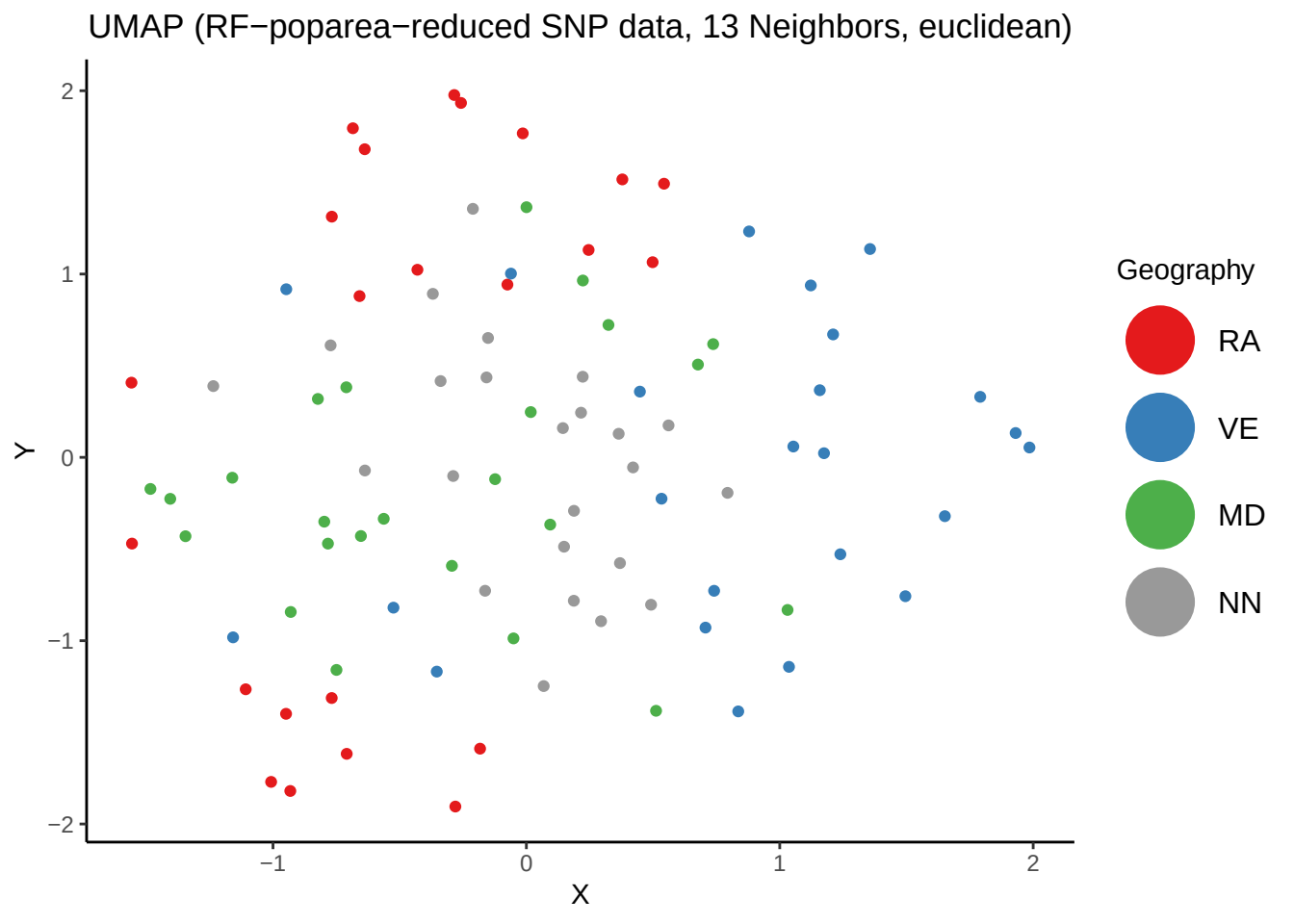

PCA
Dim2 (3.6%)
Dim1 (4%)
2
1
0
−1
−2
−1
0
1
Pop
P01
P02
P03
P04a
P04b
P05
P06
P07
P08
P09
P11
P12

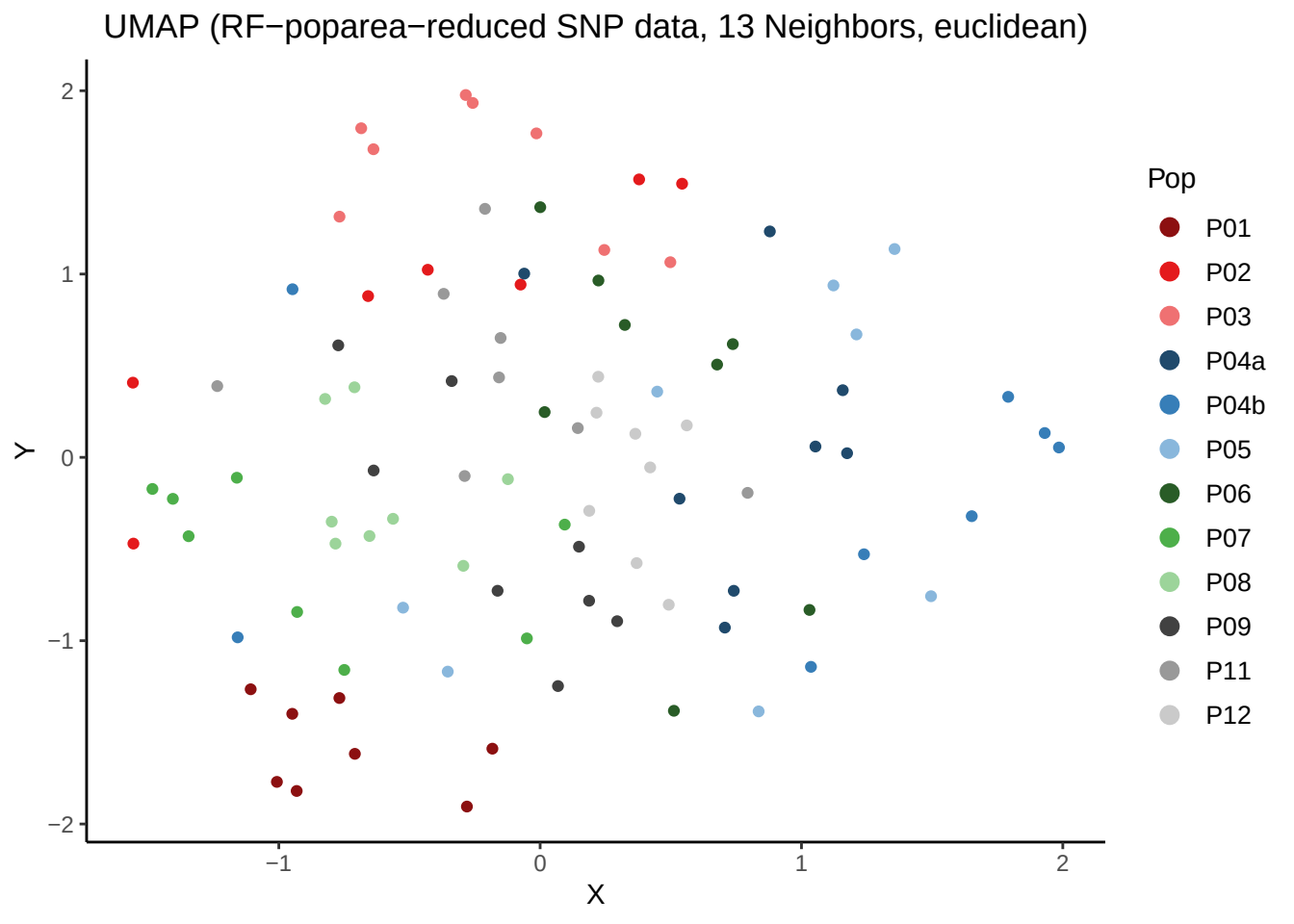

PCA
Dim2 (3.6%)
Dim1 (4%)
1
0
−1
−1
0
1
Sex
F
M

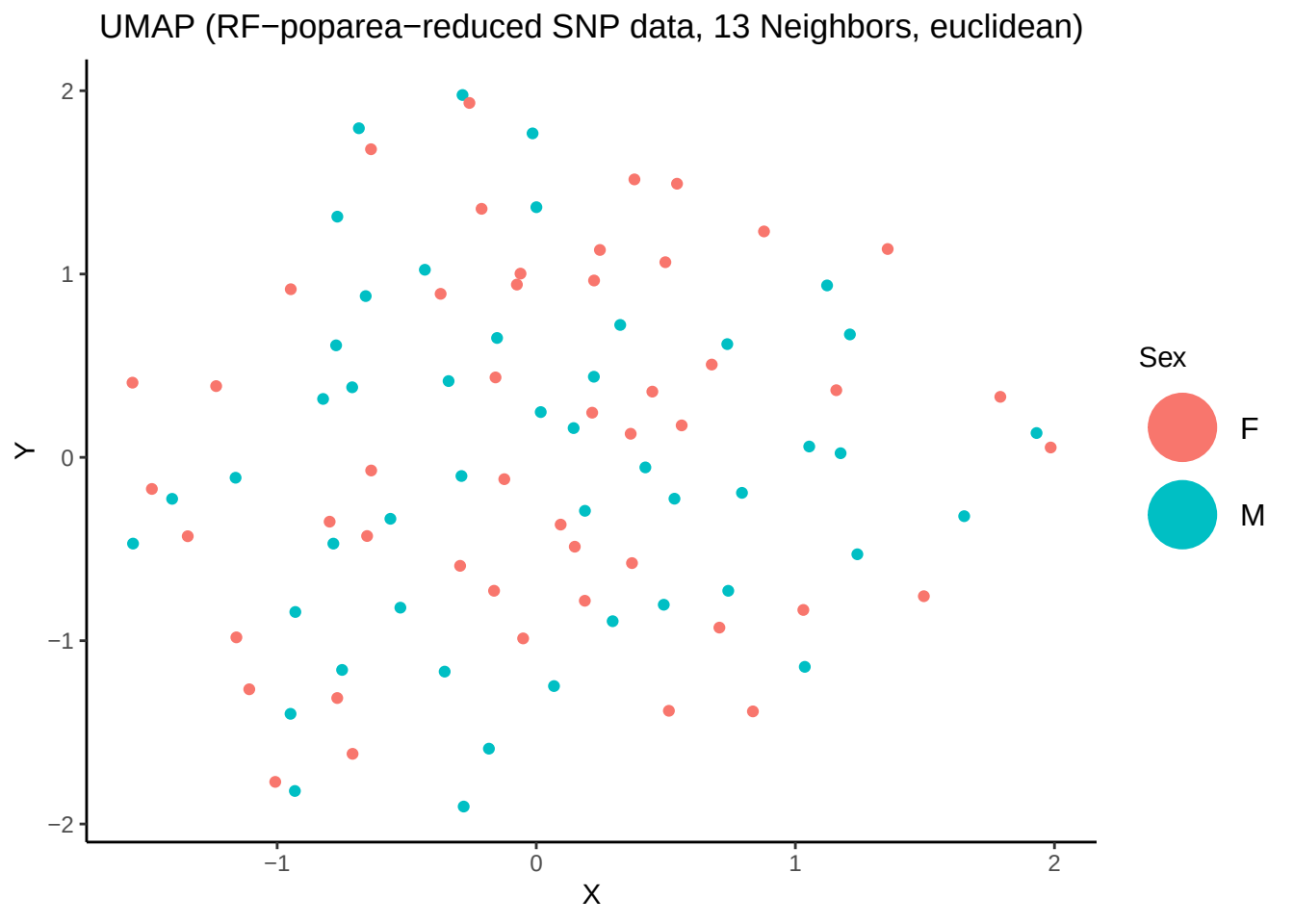

UMAP (RF−poparea−reduced SNP data, 13 Neighbors, cosine)
Y
X
2
1
0
−1
−2
−2
−1
0
1
2
Geography
RA
VE
MD
NN


UMAP (RF−poparea−reduced SNP data, 13 Neighbors, cosine)
Y
X
2
1
0
−1
−2
−2
−1
0
1
2
Pop
P01
P02
P03
P04a
P04b
P05
P06
P07
P08
P09
P11
P12

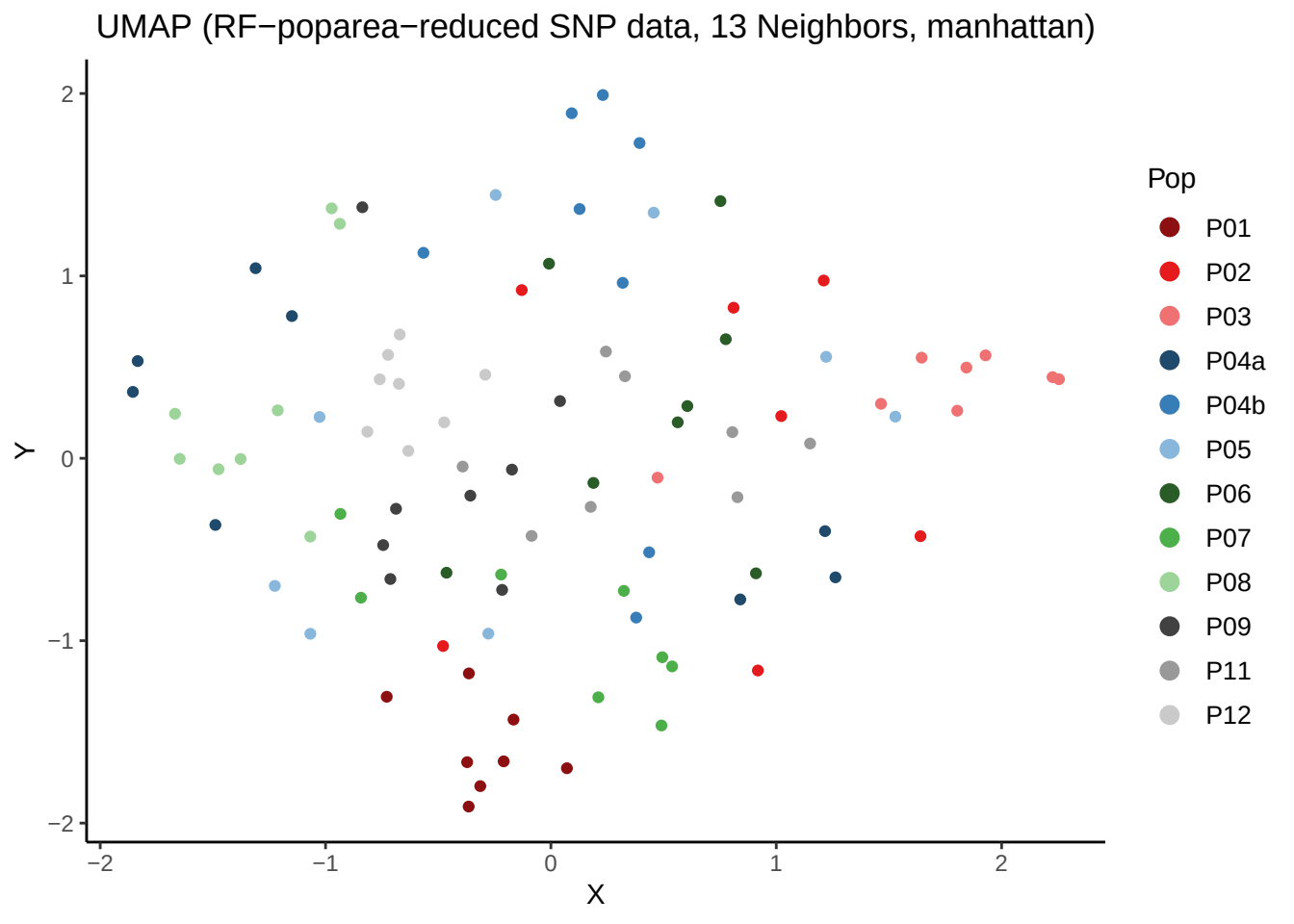

UMAP (RF−poparea−reduced SNP data, 13 Neighbors, cosine)
Y
X
2
1
0
−1
−2
−2
−1
0
1
2
Sex
F
M

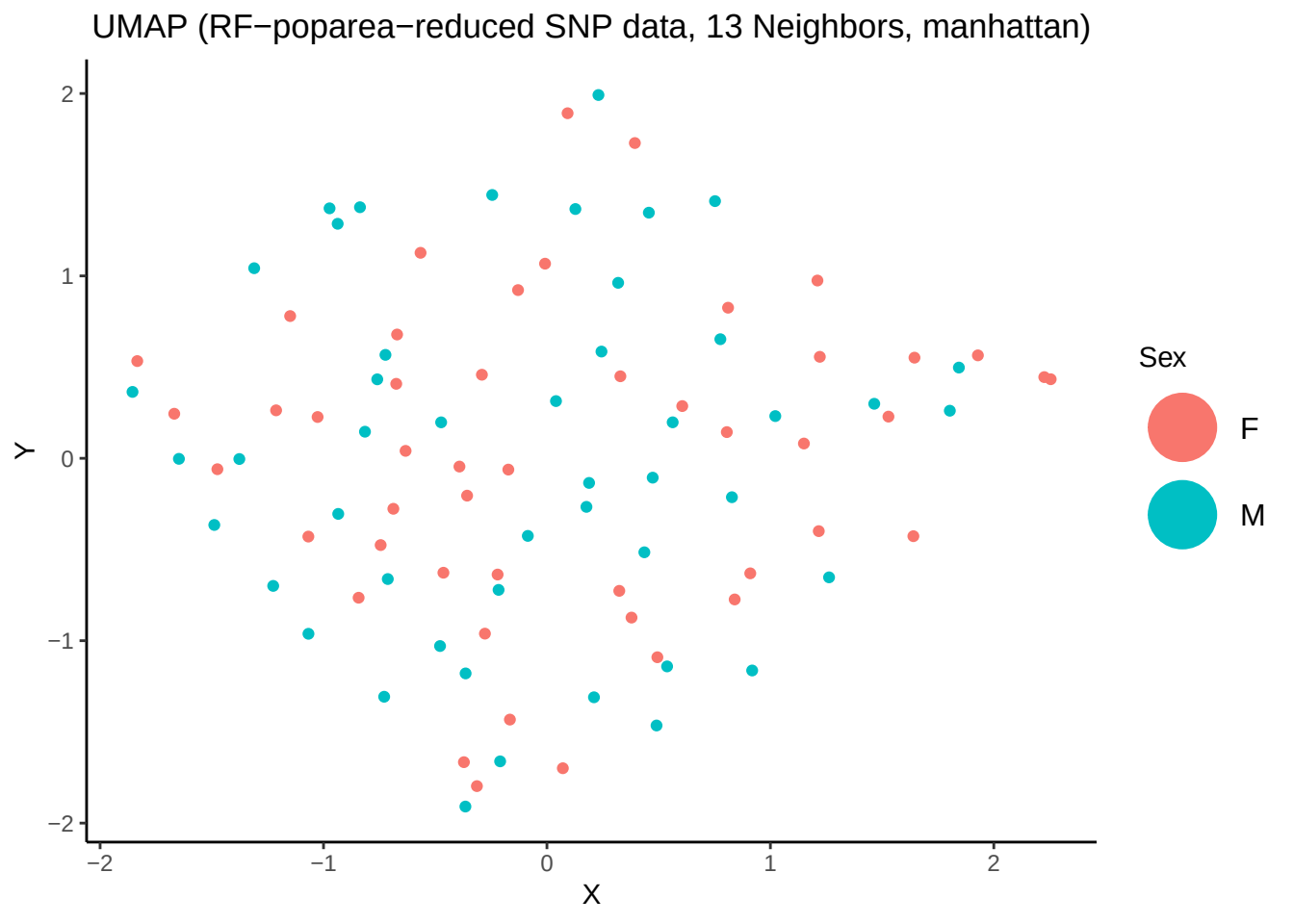

UMAP (RF−poparea−reduced SNP data, 13 Neighbors, euclidean)
Y
X
2
1
0
−1
−2
−1
0
1
2
Geography
RA
VE
MD
NN

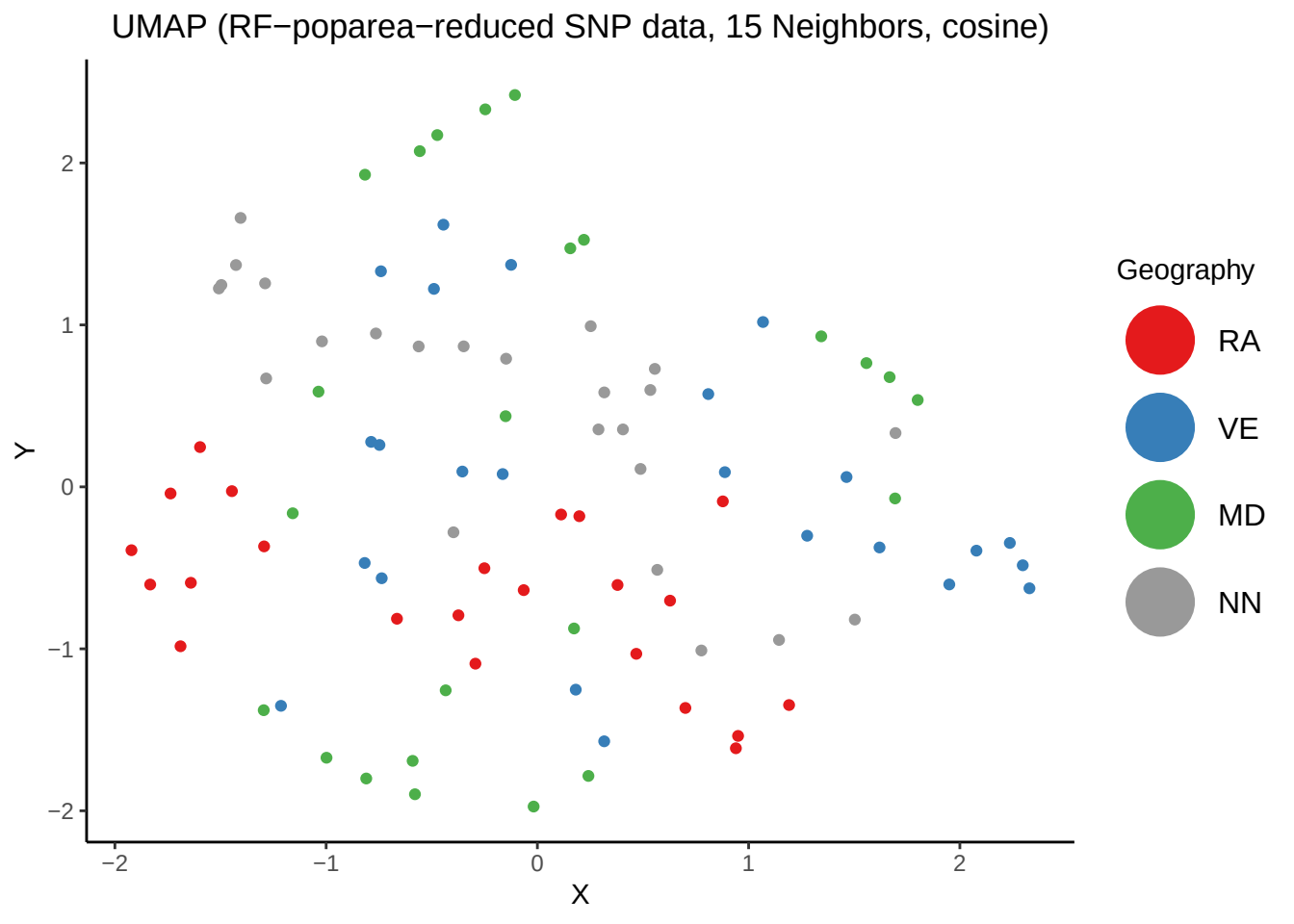

UMAP (RF−poparea−reduced SNP data, 13 Neighbors, euclidean)
Y
X
2
1
0
−1
−2
−1
0
1
2
Pop
P01
P02
P03
P04a
P04b
P05
P06
P07
P08
P09
P11
P12

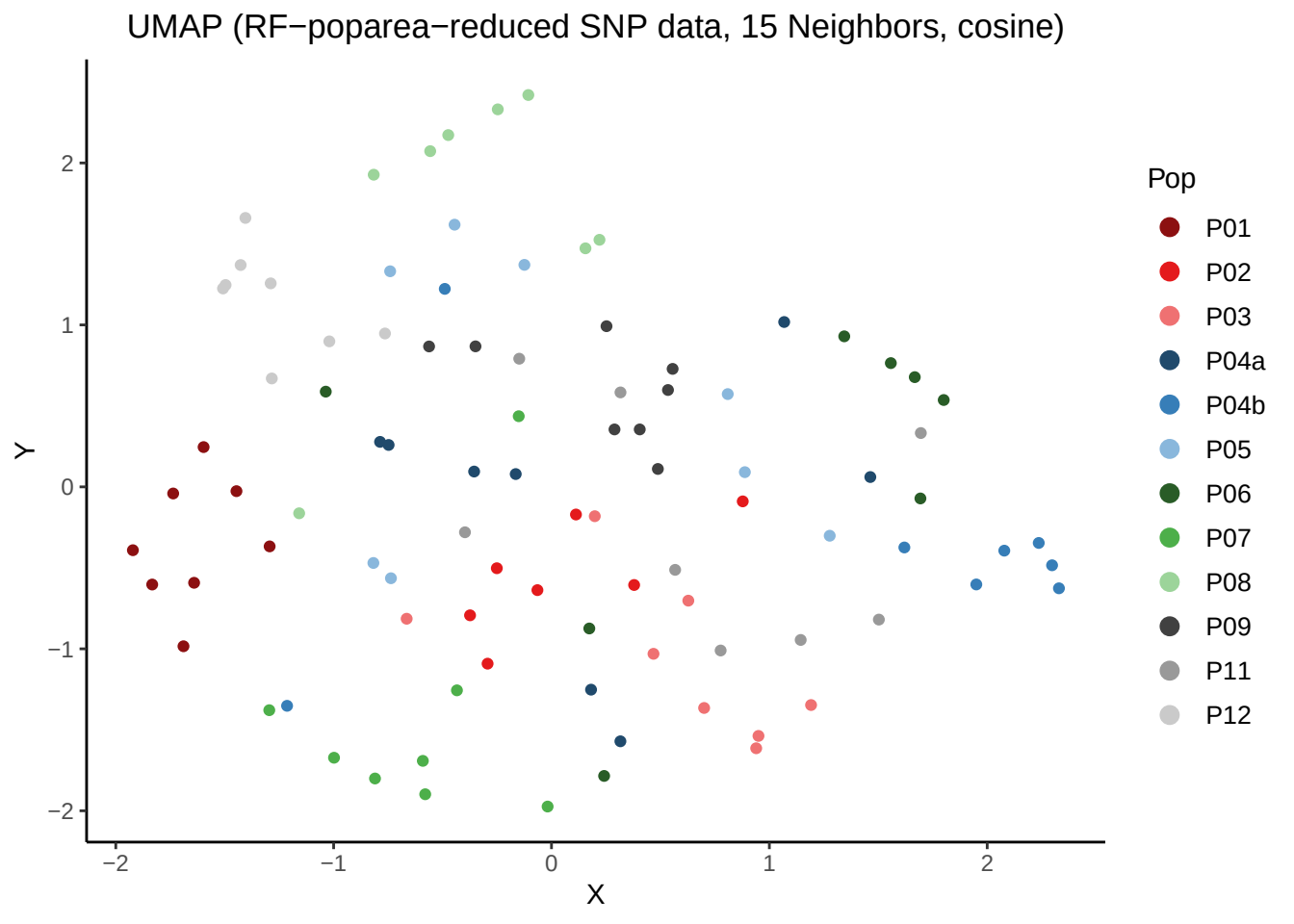

UMAP (RF−poparea−reduced SNP data, 13 Neighbors, euclidean)
Y
X
2
1
0
−1
−2
−1
0
1
2
Sex
F
M

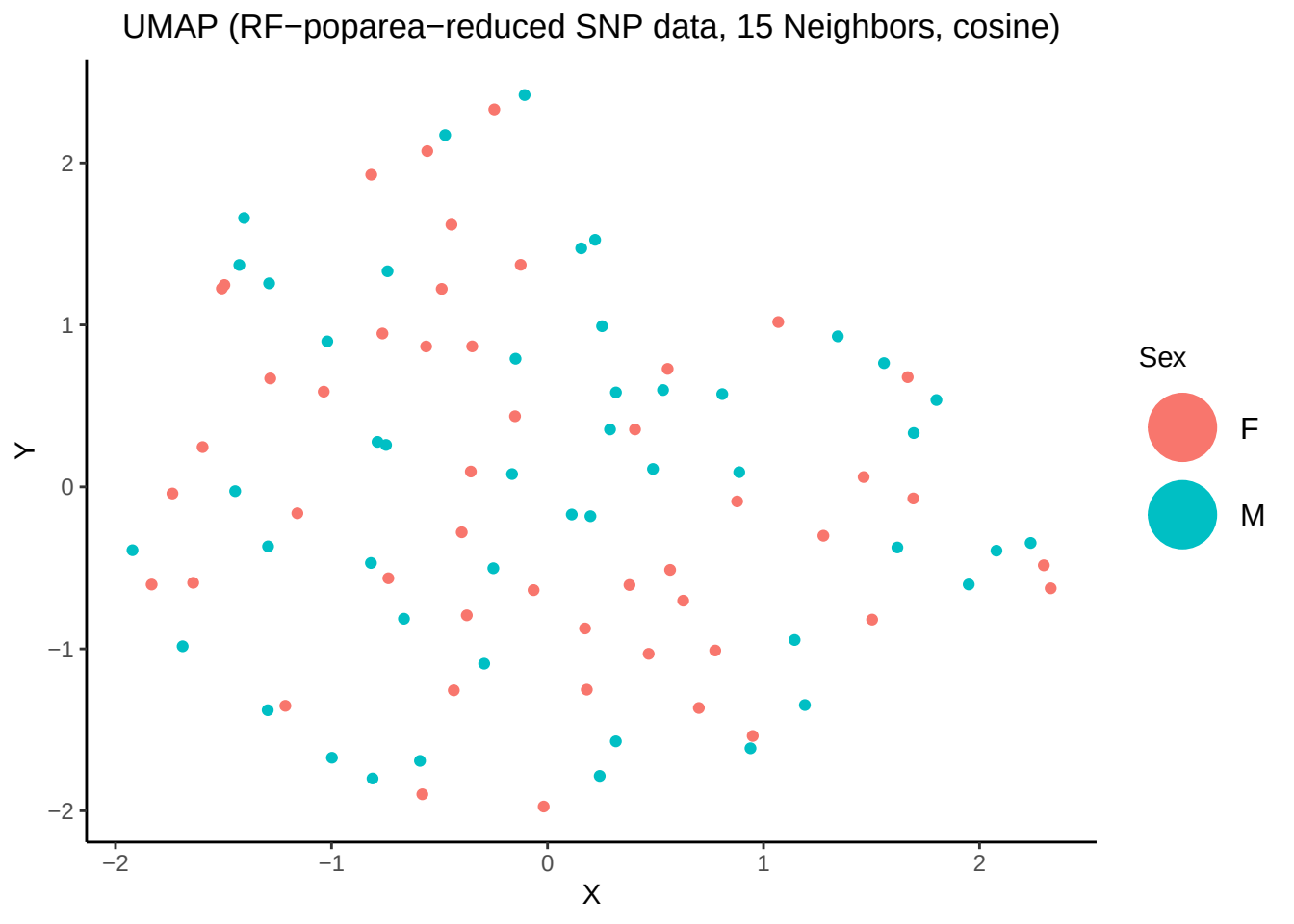
UMAP (RF−poparea−reduced SNP data, 13 Neighbors, manhattan)
Y
X
2
1
0
−1
−2
−2
−1
0
1
2
Geography
RA
VE
MD
NN

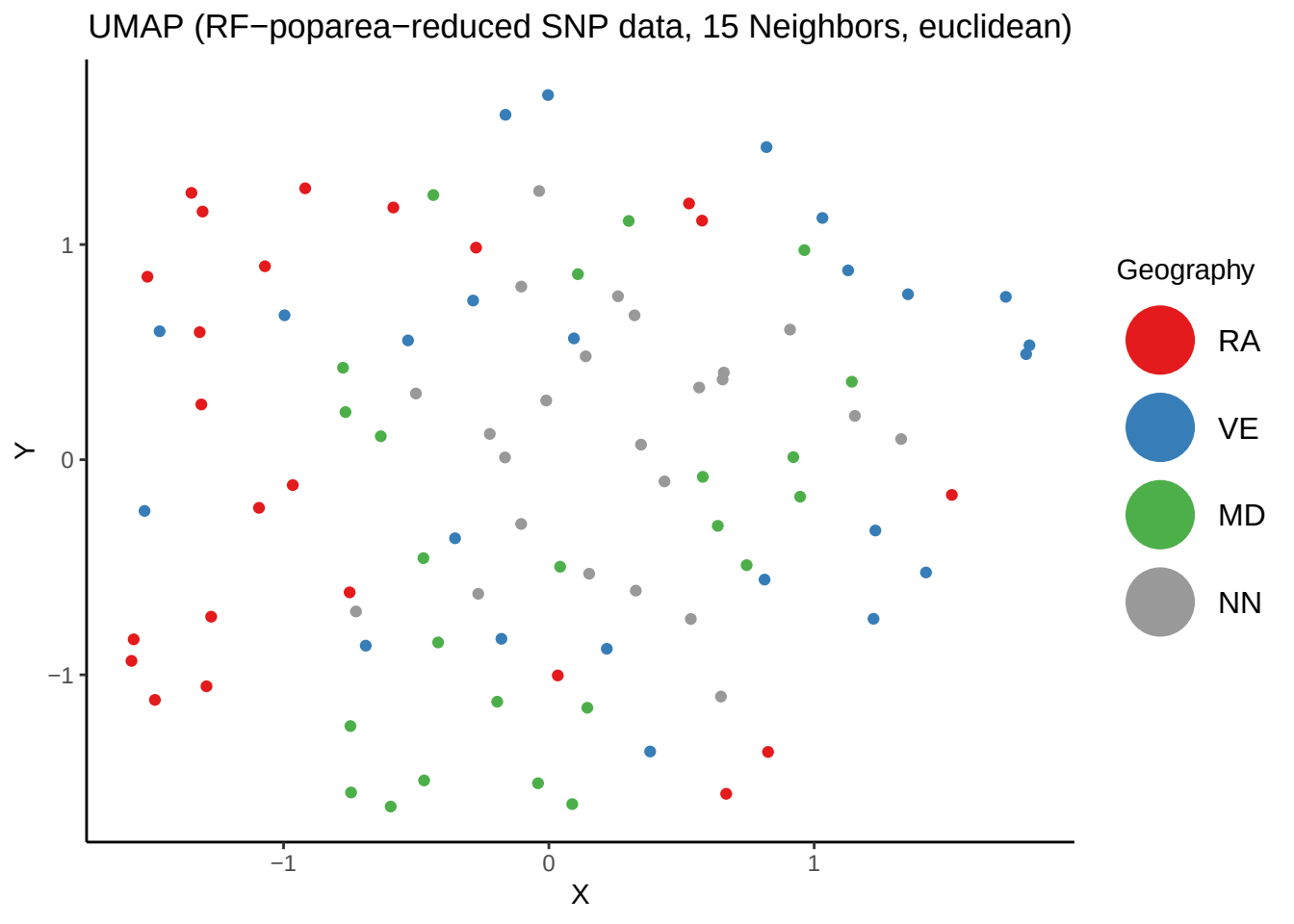

UMAP (RF−poparea−reduced SNP data, 13 Neighbors, manhattan)
Y
X
2
1
0
−1
−2
−2
−1
0
1
2
Pop
P01
P02
P03
P04a
P04b
P05
P06
P07
P08
P09
P11
P12

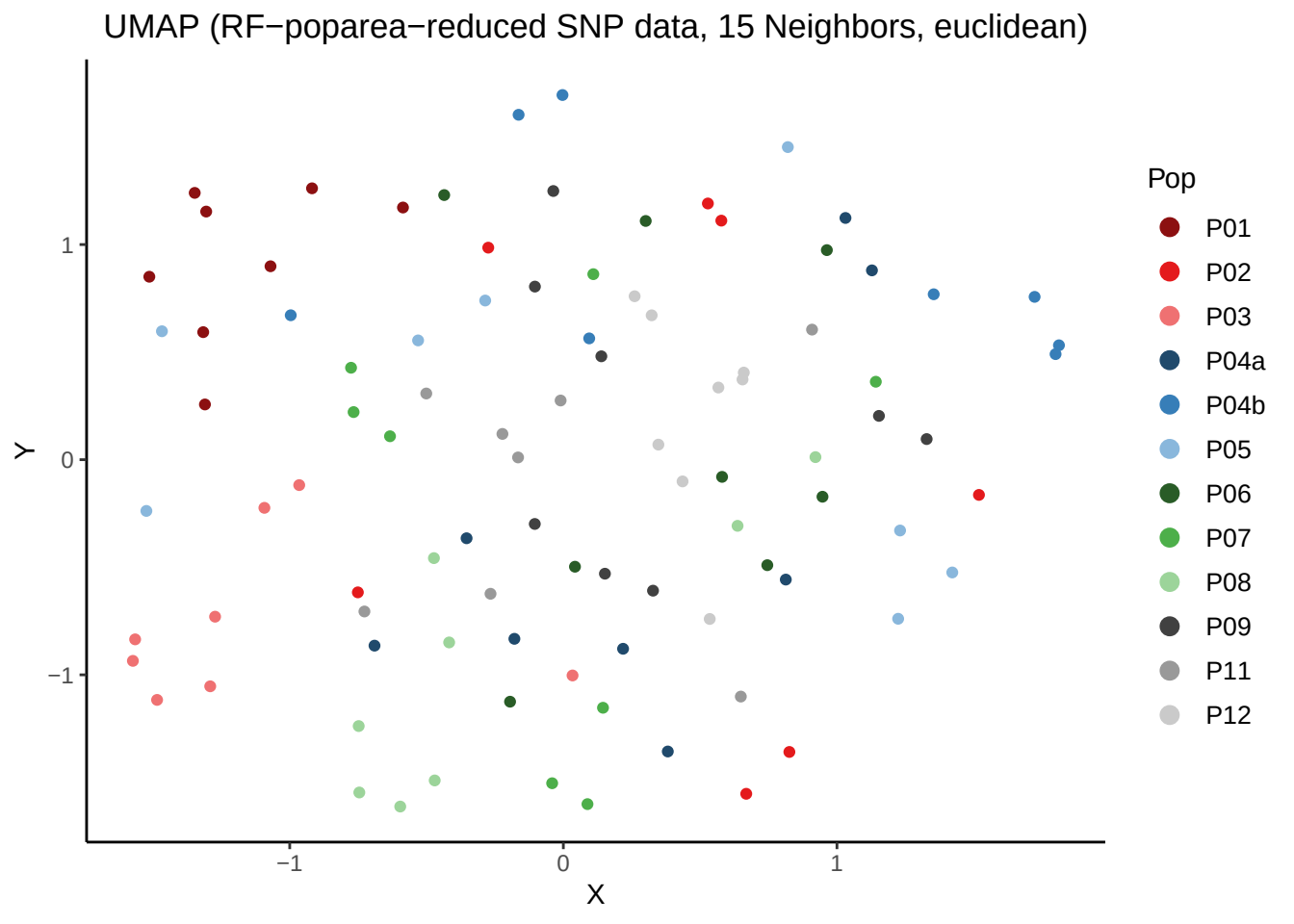

UMAP (RF−poparea−reduced SNP data, 13 Neighbors, manhattan)
Y
X
2
1
0
−1
−2
−2
−1
0
1
2
Sex
F
M

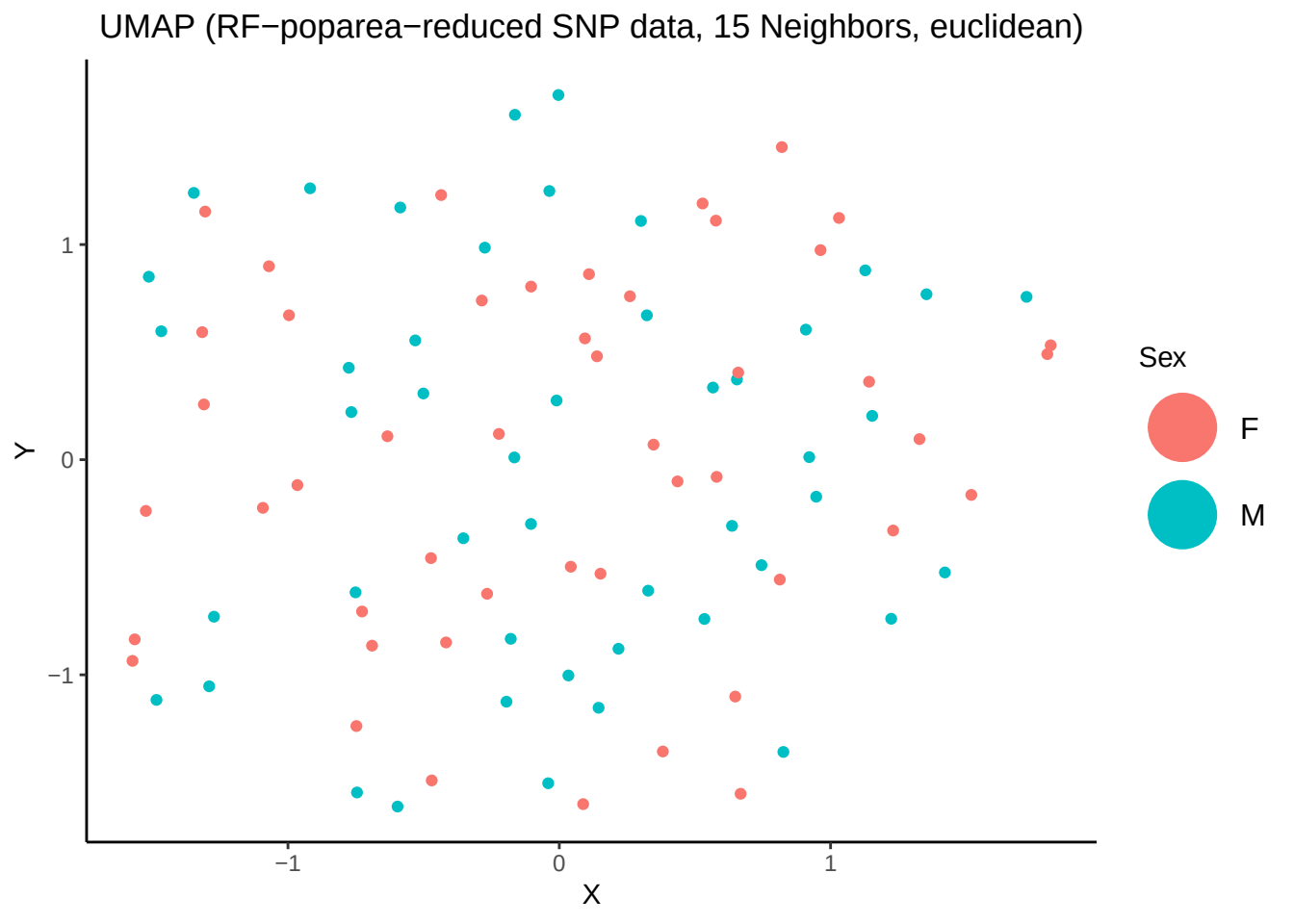

UMAP (RF−poparea−reduced SNP data, 15 Neighbors, cosine)
Y
X
2
1
0
−1
−2
−2
−1
0
1
2
Geography
RA
VE
MD
NN

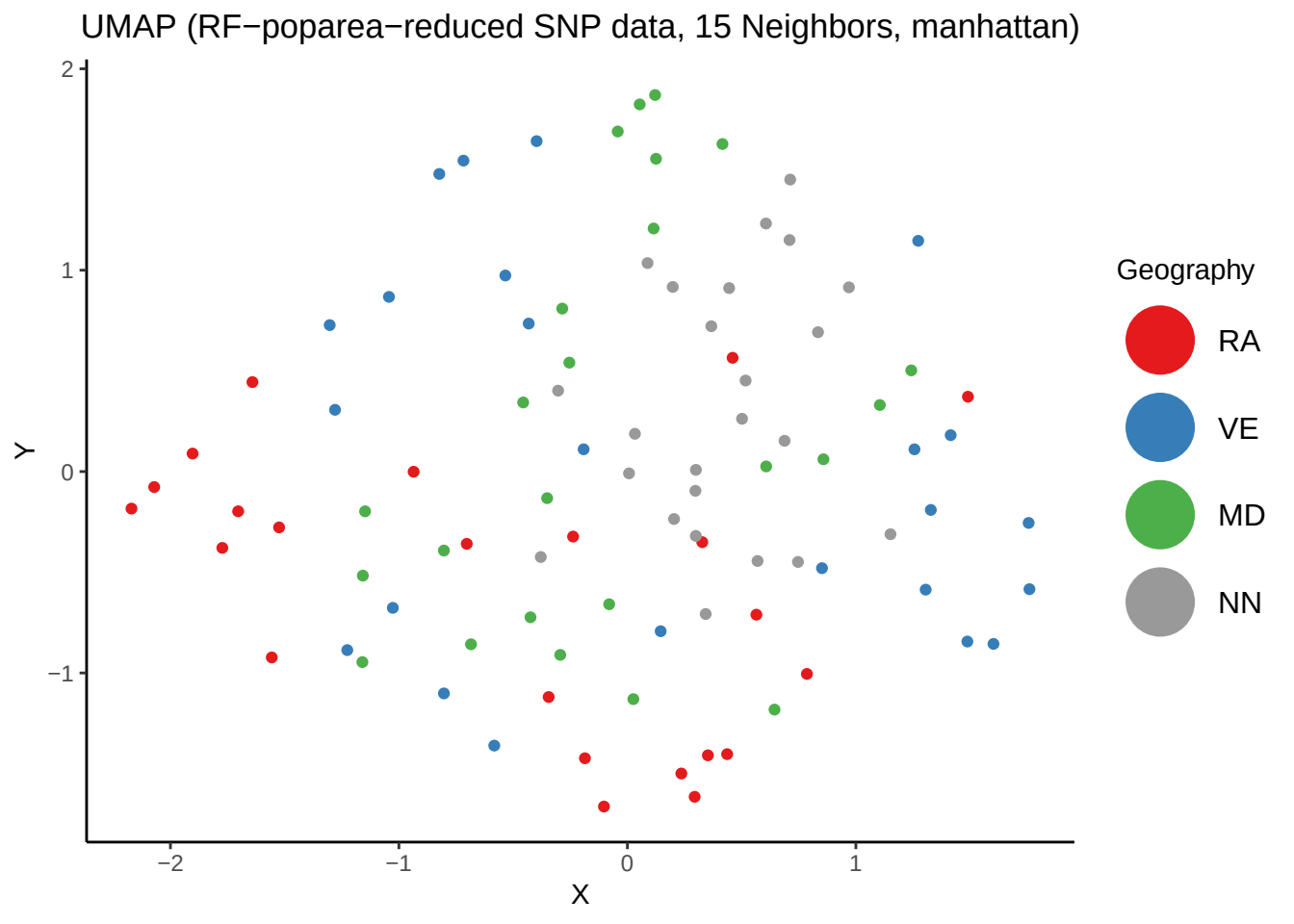

UMAP (RF−poparea−reduced SNP data, 15 Neighbors, cosine)
Y
X
2
1
0
−1
−2
−2
−1
0
1
2
Pop
P01
P02
P03
P04a
P04b
P05
P06
P07
P08
P09
P11
P12

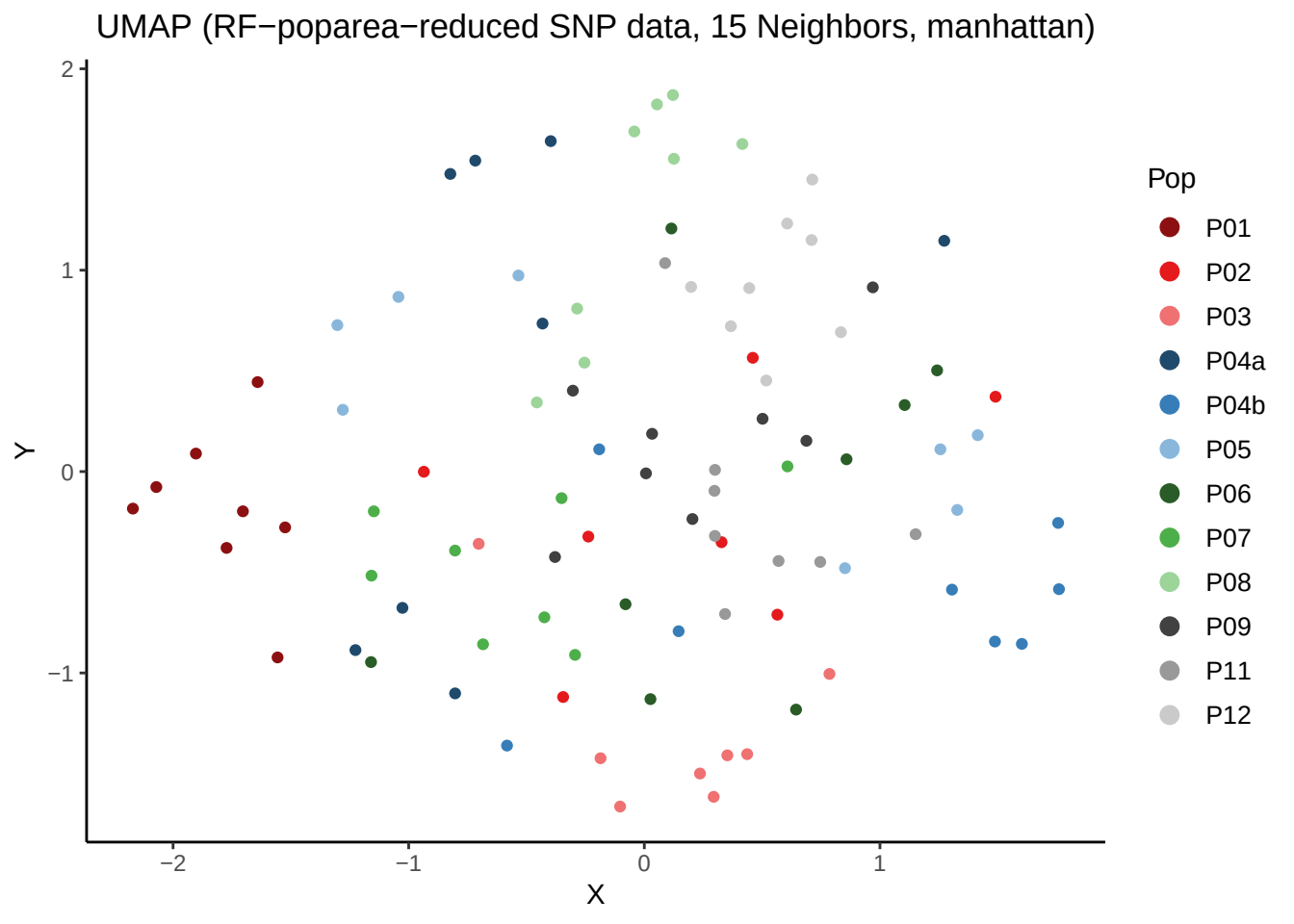

UMAP (RF−poparea−reduced SNP data, 15 Neighbors, cosine)
Y
X
2
1
0
−1
−2
−2
−1
0
1
2
Sex
F
M

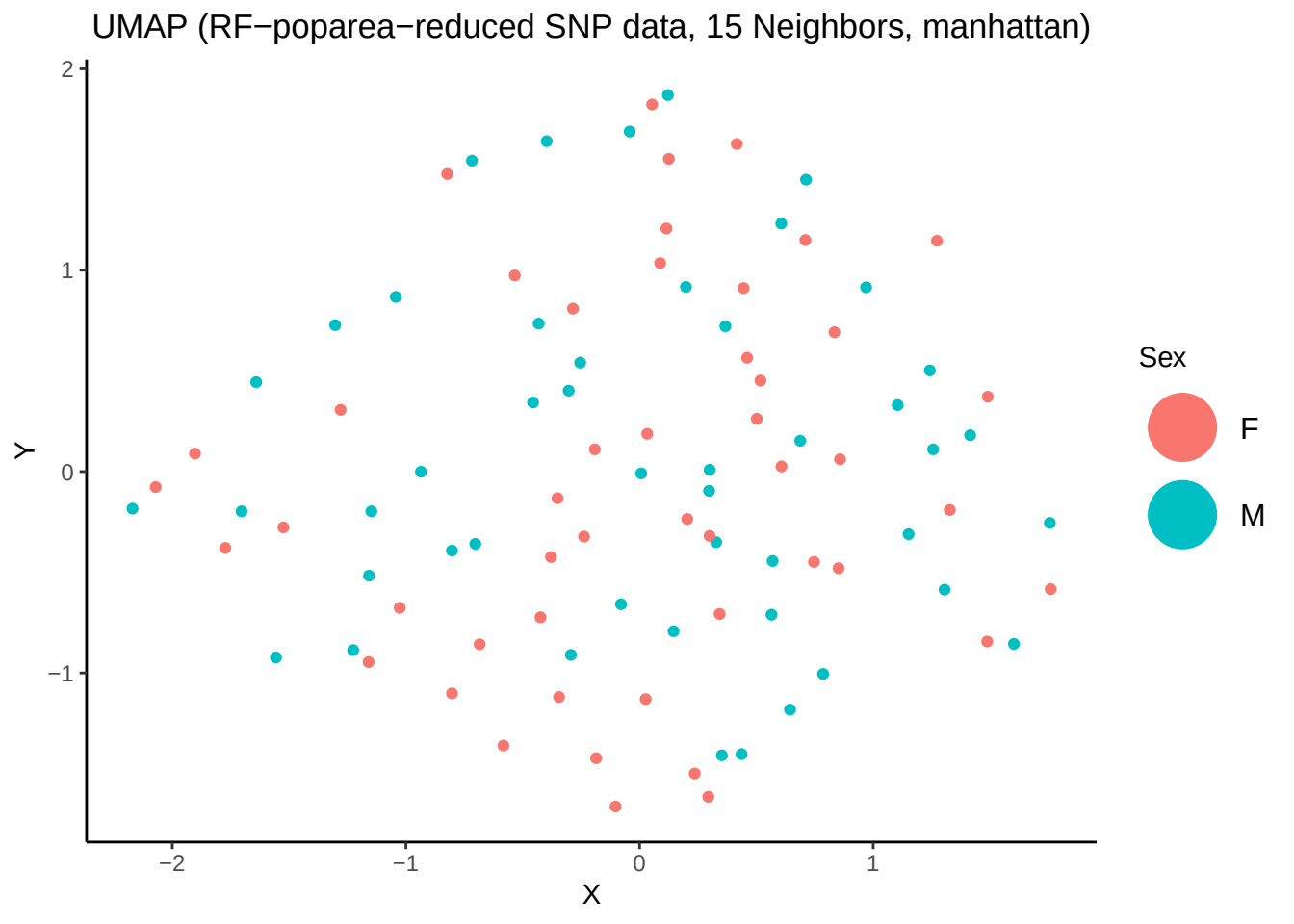

UMAP (RF−poparea−reduced SNP data, 15 Neighbors, euclidean)
Y
X
1
0
−1
−1
0
1
Geography
RA
VE
MD
NN

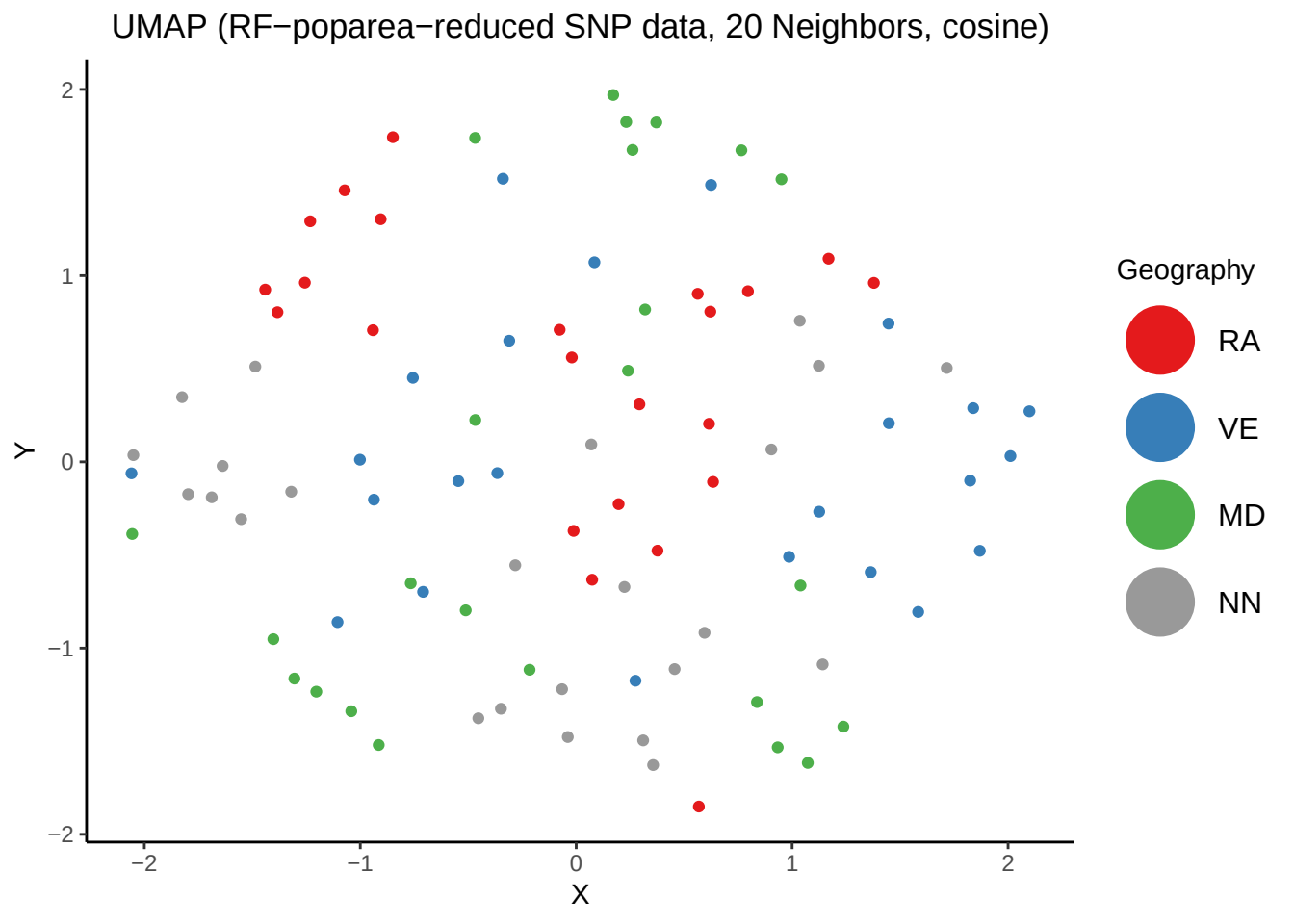

UMAP (RF−poparea−reduced SNP data, 15 Neighbors, euclidean)
Y
X
1
0
−1
−1
0
1
Pop
P01
P02
P03
P04a
P04b
P05
P06
P07
P08
P09
P11
P12

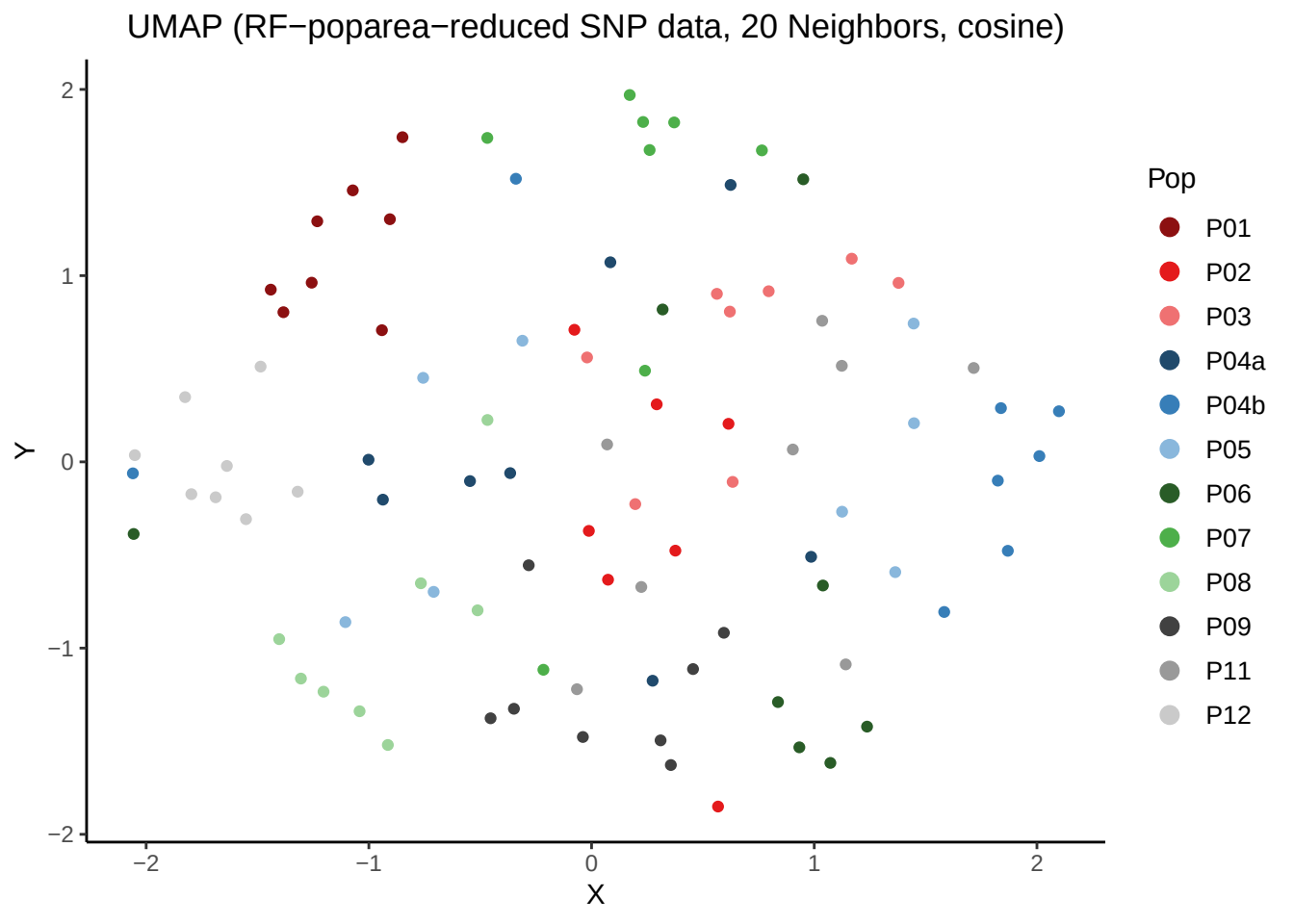

UMAP (RF−poparea−reduced SNP data, 15 Neighbors, euclidean)
Y
X
1
0
−1
−1
0
1
Sex
F
M

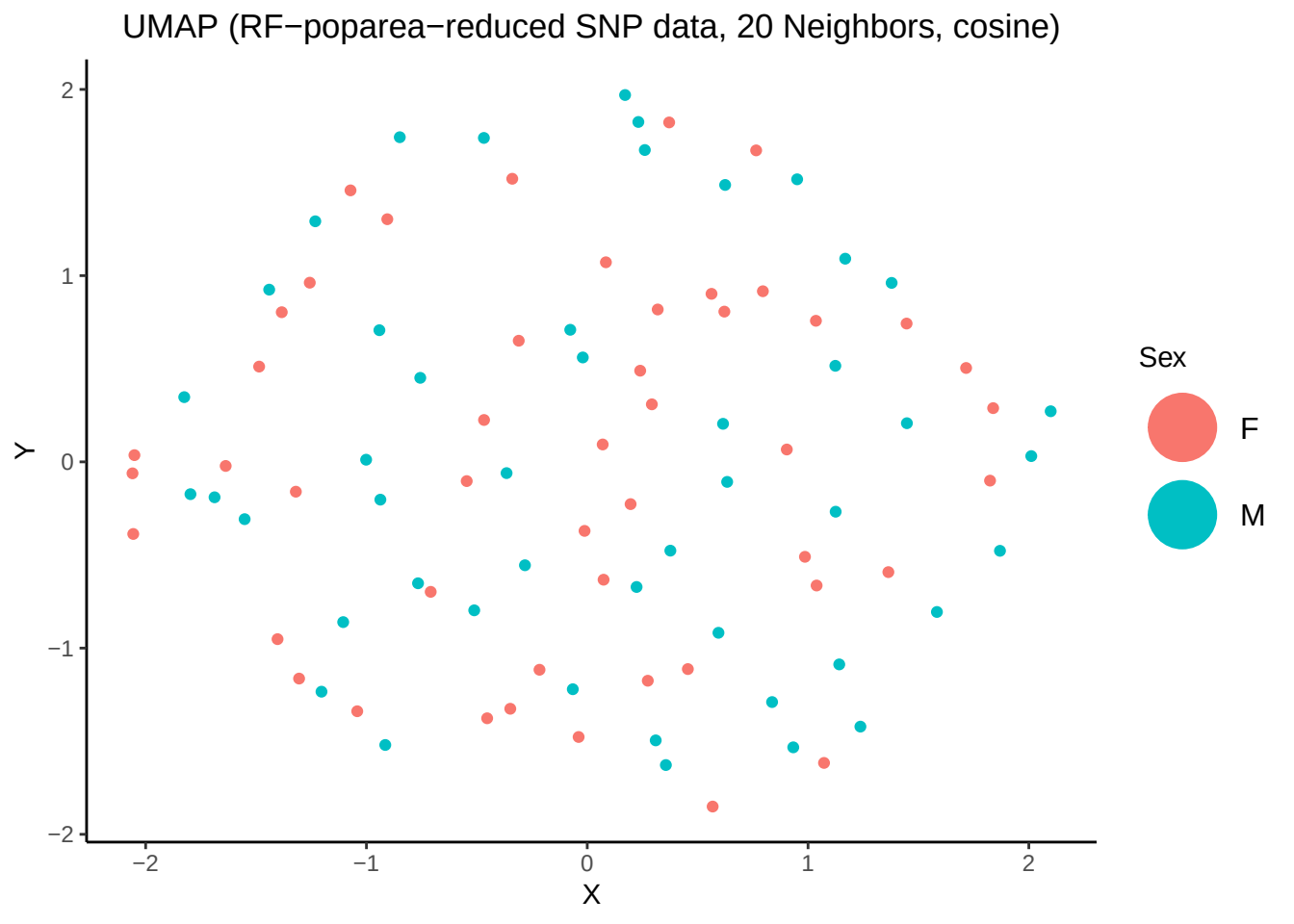

UMAP (RF−poparea−reduced SNP data, 15 Neighbors, manhattan)
2
1
0
−1
Y
−2
−1
0
1
X
Geography
RA
VE
MD
NN

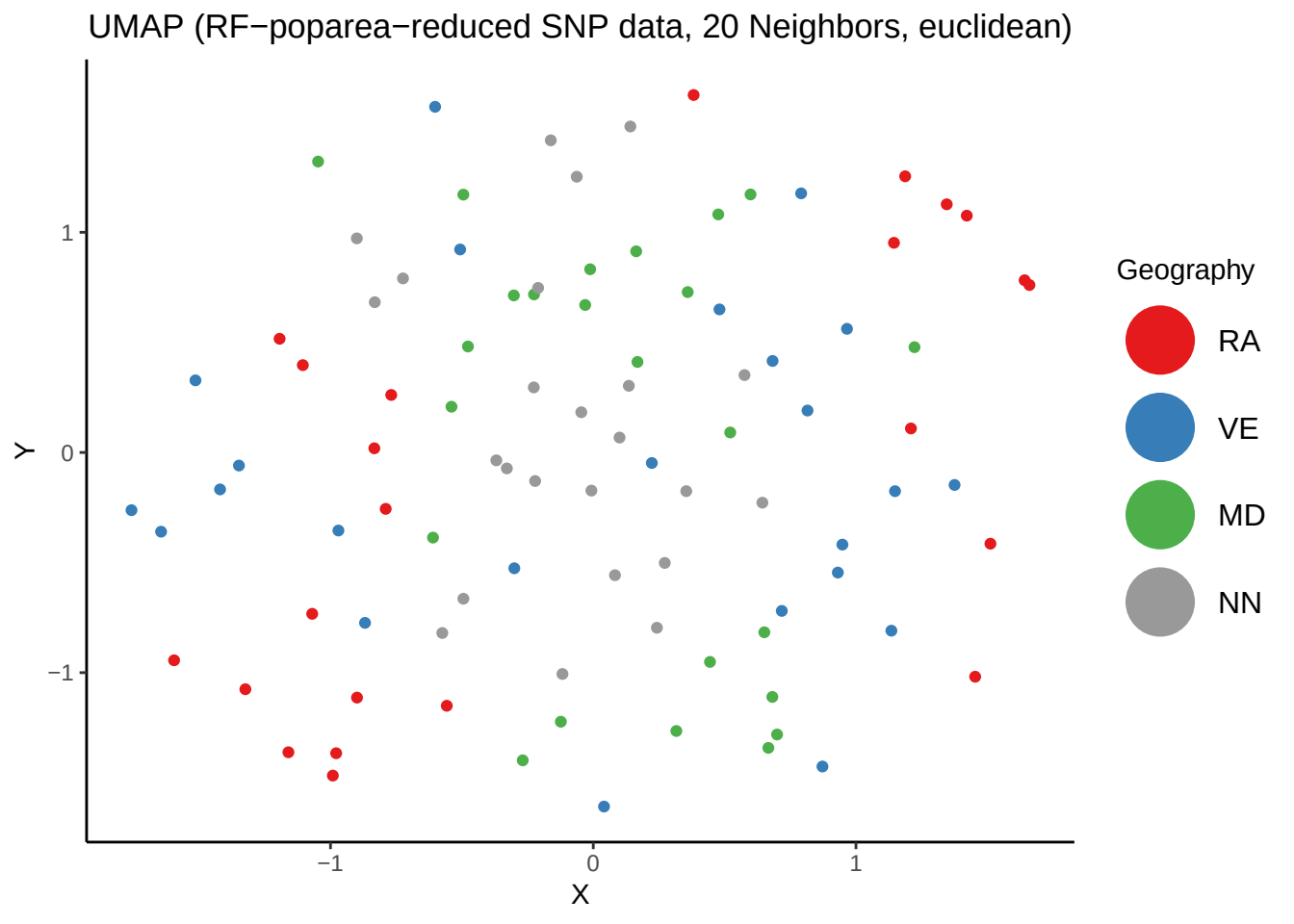

UMAP (RF−poparea−reduced SNP data, 15 Neighbors, manhattan)
2
1
0
−1
Y
−2
−1
0
1
X
Pop
P01
P02
P03
P04a
P04b
P05
P06
P07
P08
P09
P11
P12

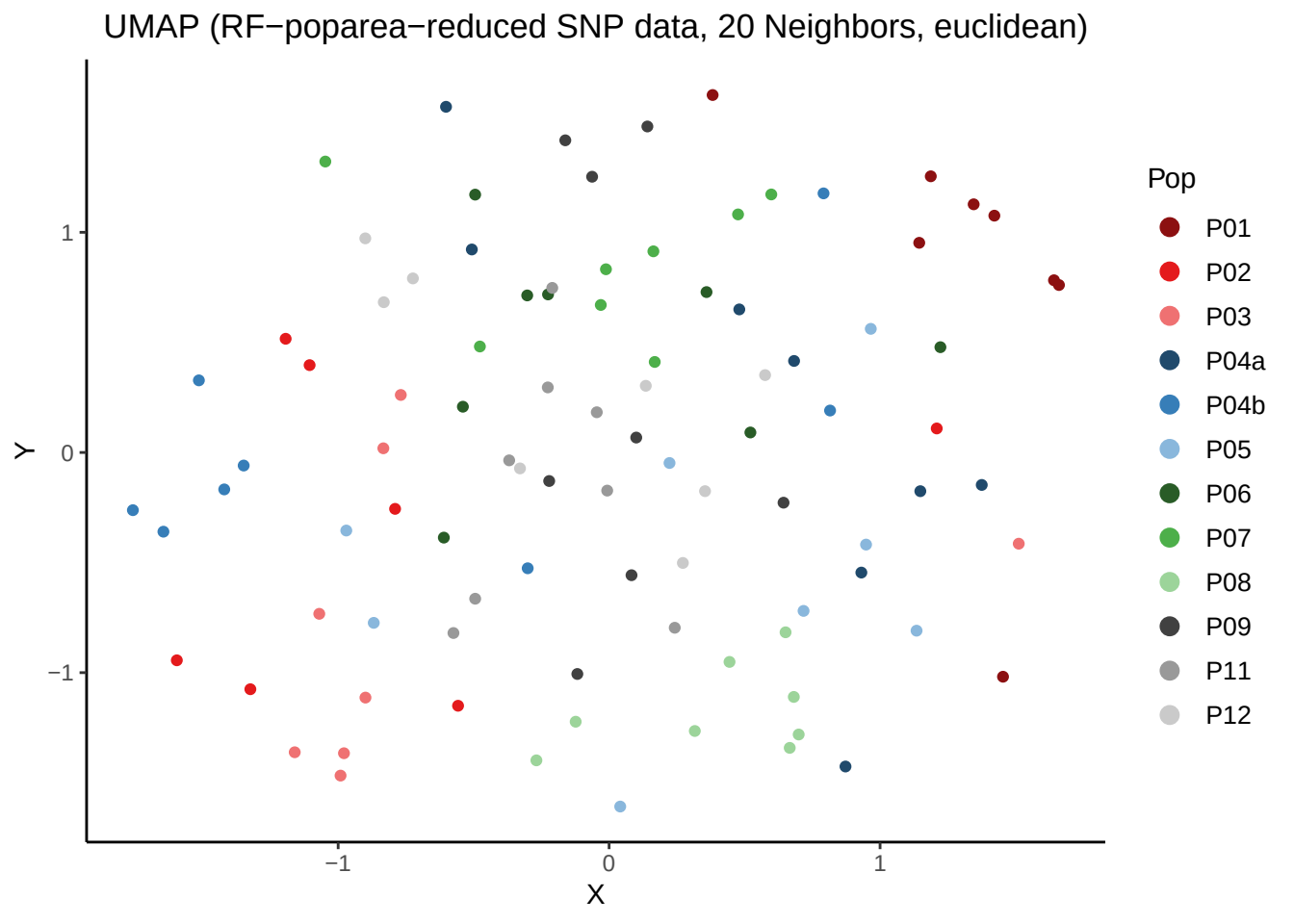

UMAP (RF−poparea−reduced SNP data, 15 Neighbors, manhattan)
2
1
0
−1
Y
−2
−1
0
1
X
Sex
F
M

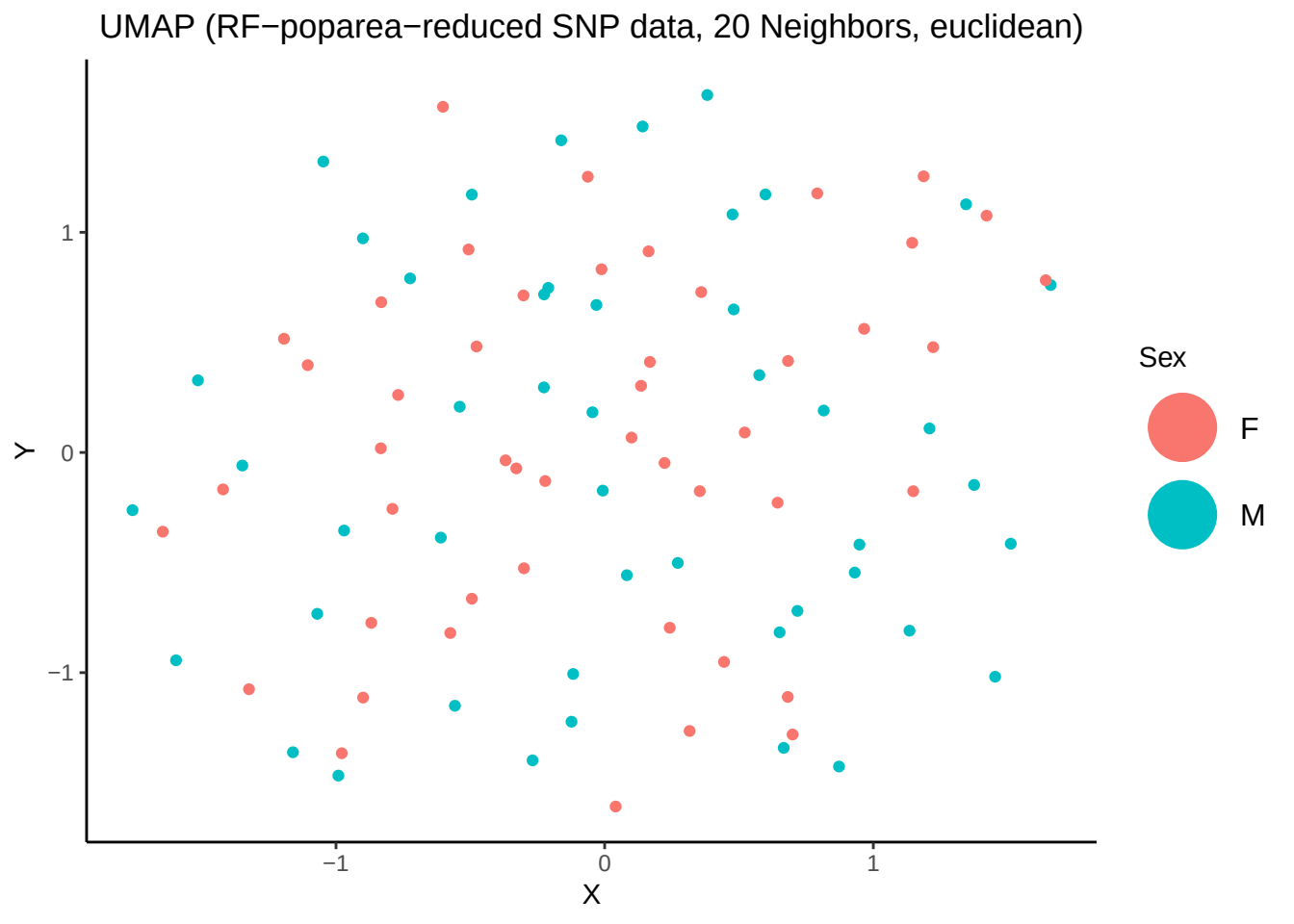

UMAP (RF−poparea−reduced SNP data, 20 Neighbors, cosine)
Y
X
2
1
0
−1
−2
−2
−1
0
1
2
Geography
RA
VE
MD
NN


UMAP (RF−poparea−reduced SNP data, 20 Neighbors, cosine)
Y
X
2
1
0
−1
−2
−2
−1
0
1
2
Pop
P01
P02
P03
P04a
P04b
P05
P06
P07
P08
P09
P11
P12

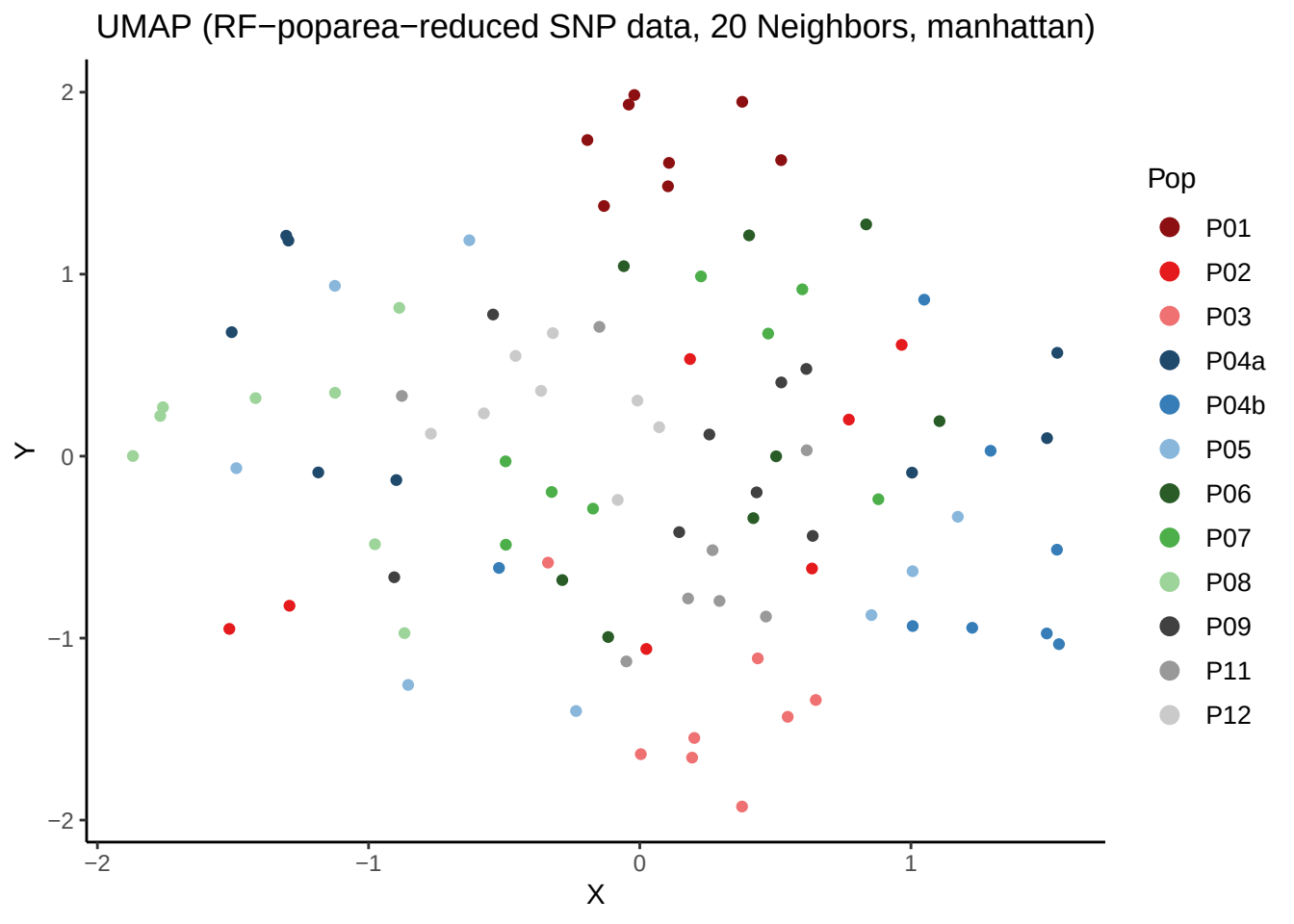

UMAP (RF−poparea−reduced SNP data, 20 Neighbors, cosine)
Y
X
2
1
0
−1
−2
−2
−1
0
1
2
Sex
F
M

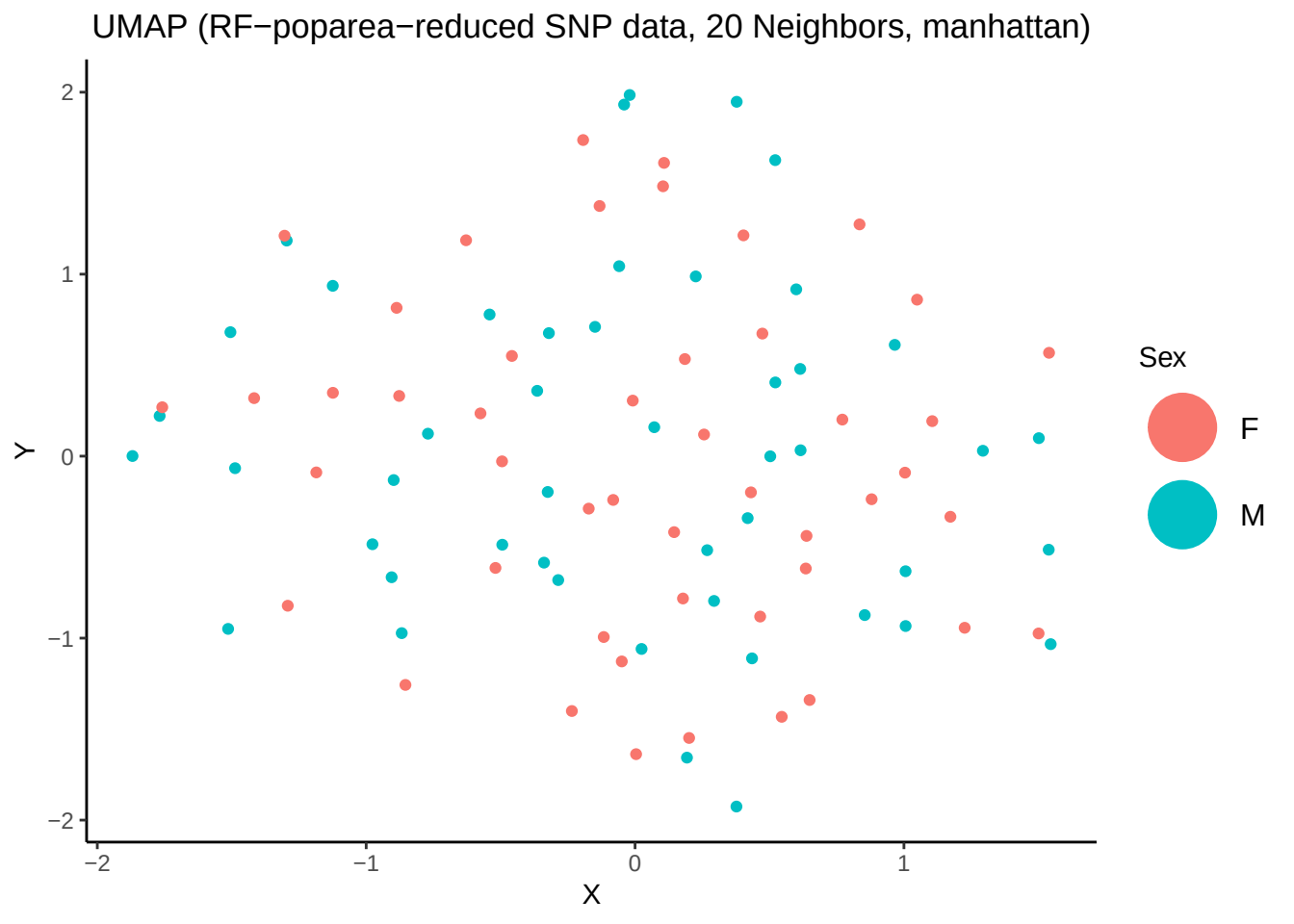

UMAP (RF−poparea−reduced SNP data, 20 Neighbors, euclidean)
Y
X
1
0
−1
−1
0
1
Geography
RA
VE
MD
NN

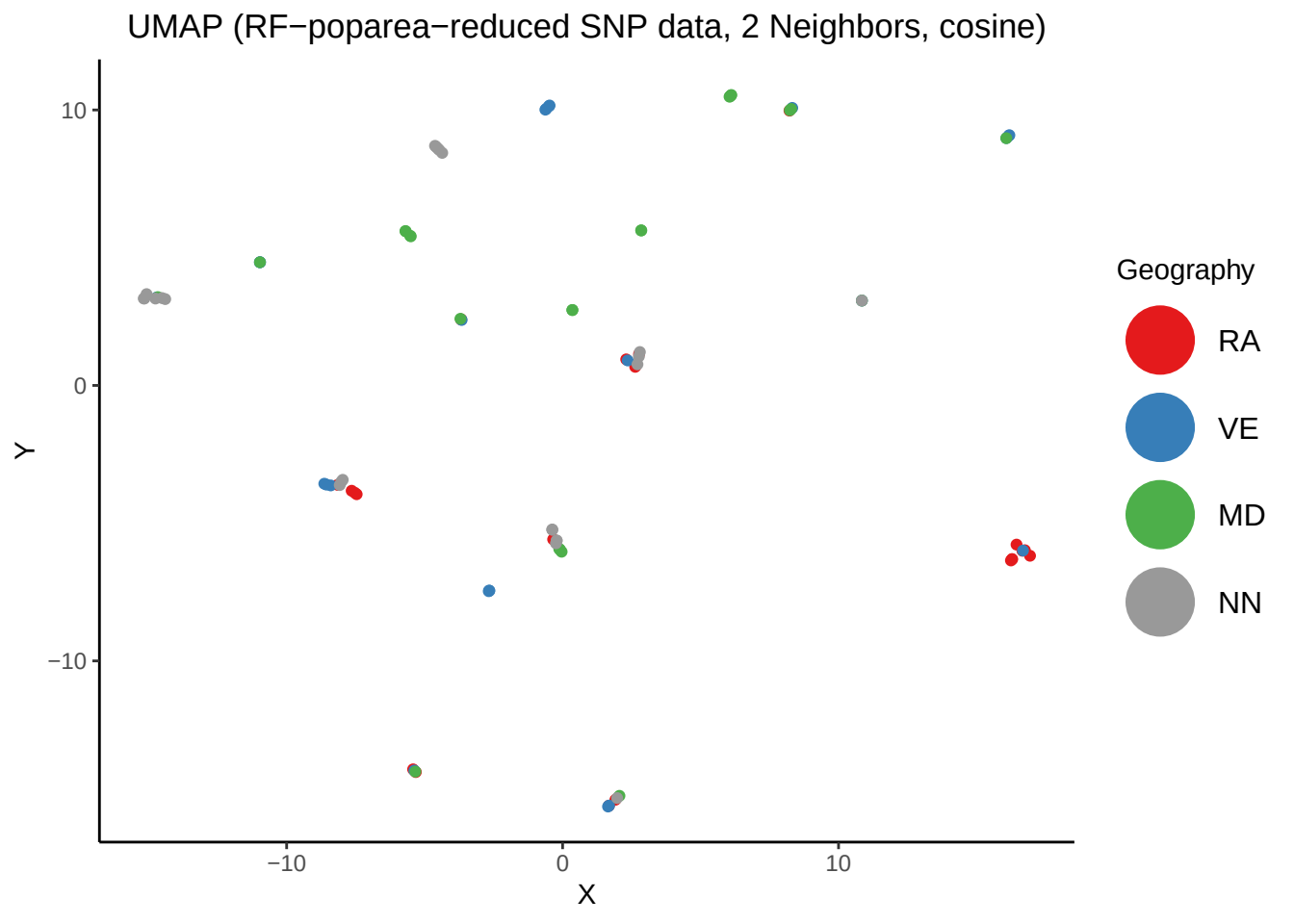

UMAP (RF−poparea−reduced SNP data, 20 Neighbors, euclidean)
Y
X
1
0
−1
−1
0
1
Pop
P01
P02
P03
P04a
P04b
P05
P06
P07
P08
P09
P11
P12

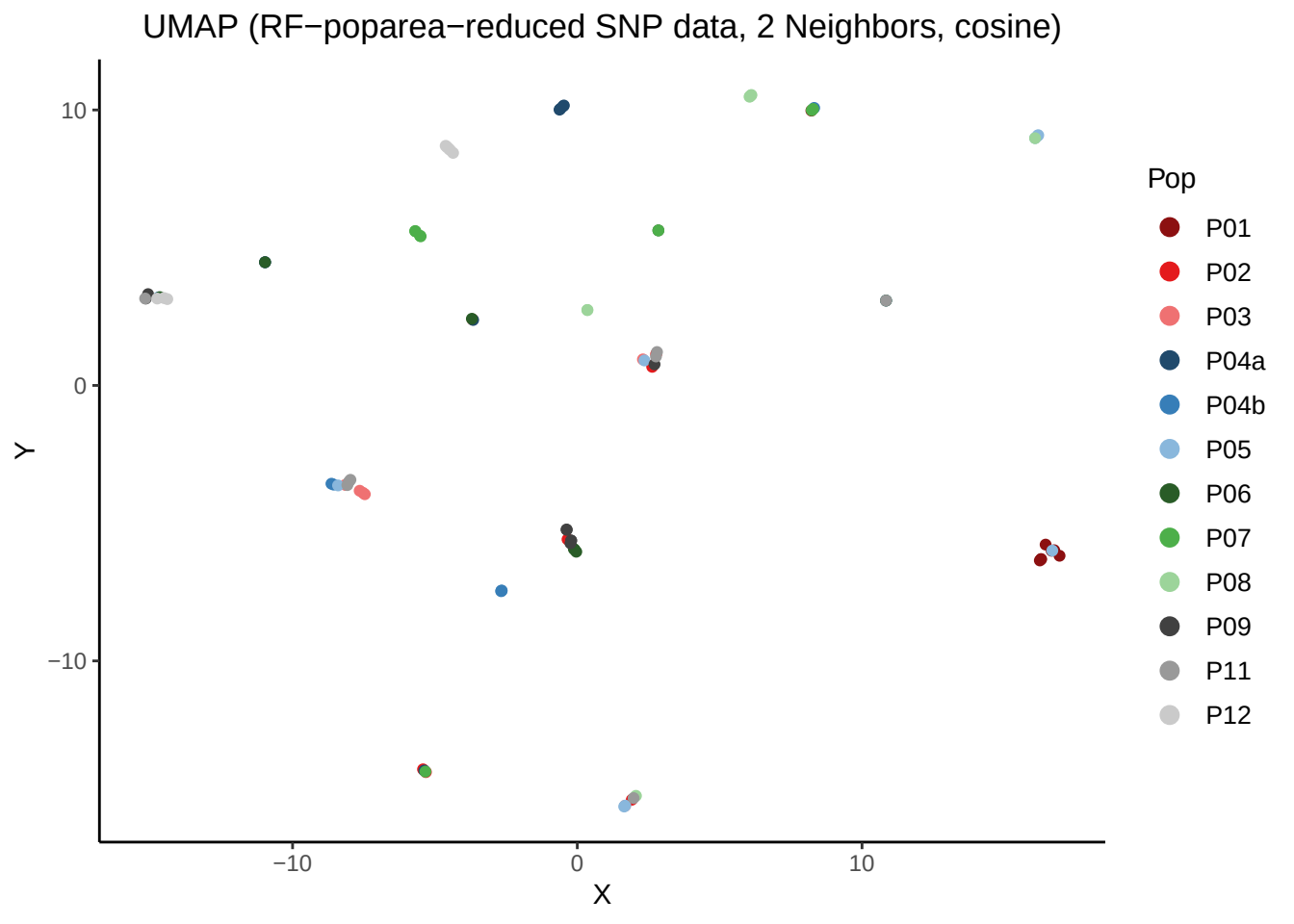

UMAP (RF−poparea−reduced SNP data, 20 Neighbors, euclidean)
Y
X
1
0
−1
−1
0
1
Sex
F
M

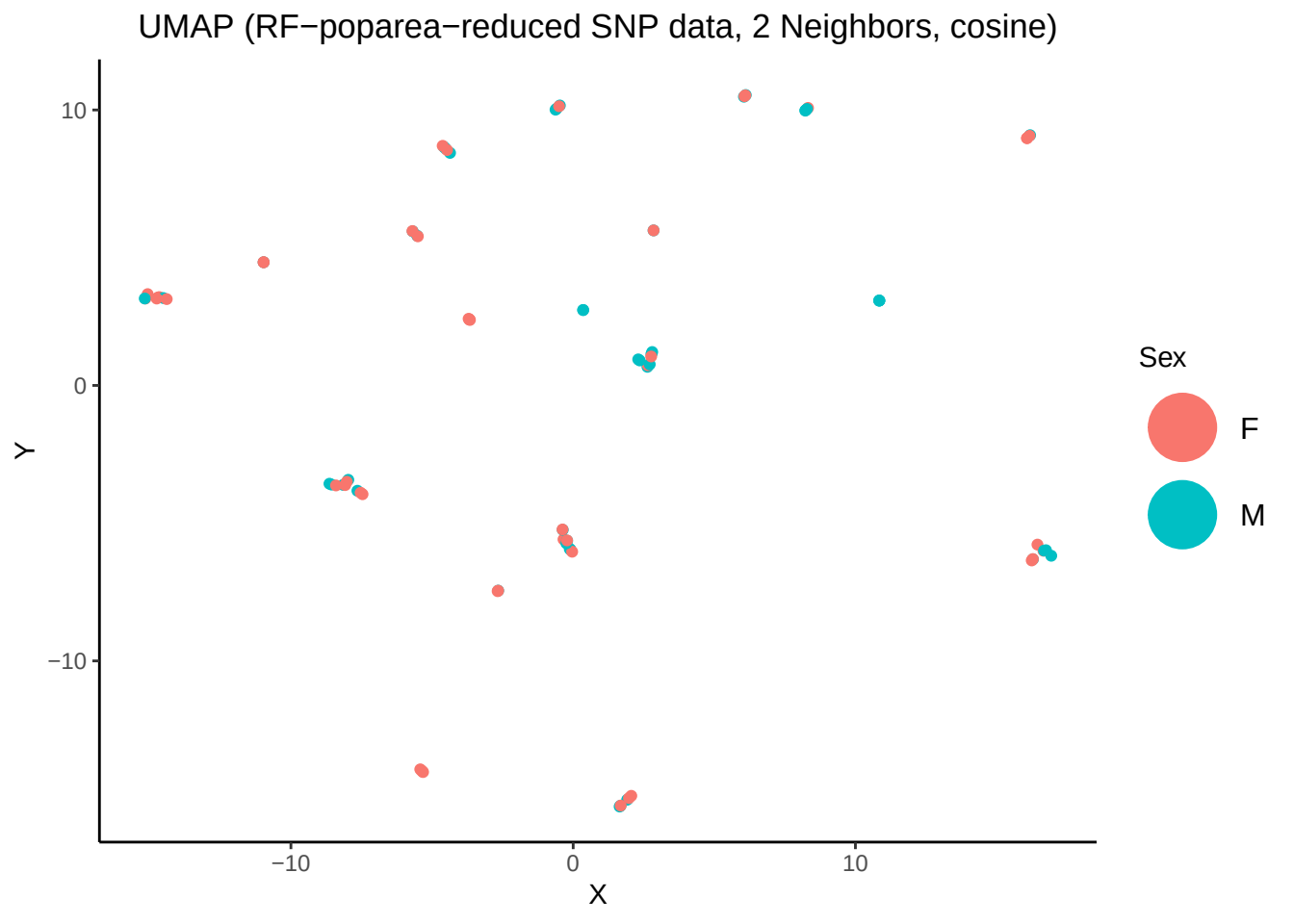
UMAP (RF−poparea−reduced SNP data, 20 Neighbors, manhattan)
Y
X
2
1
0
−1
−2
−2
−1
0
1
Geography
RA
VE
MD
NN

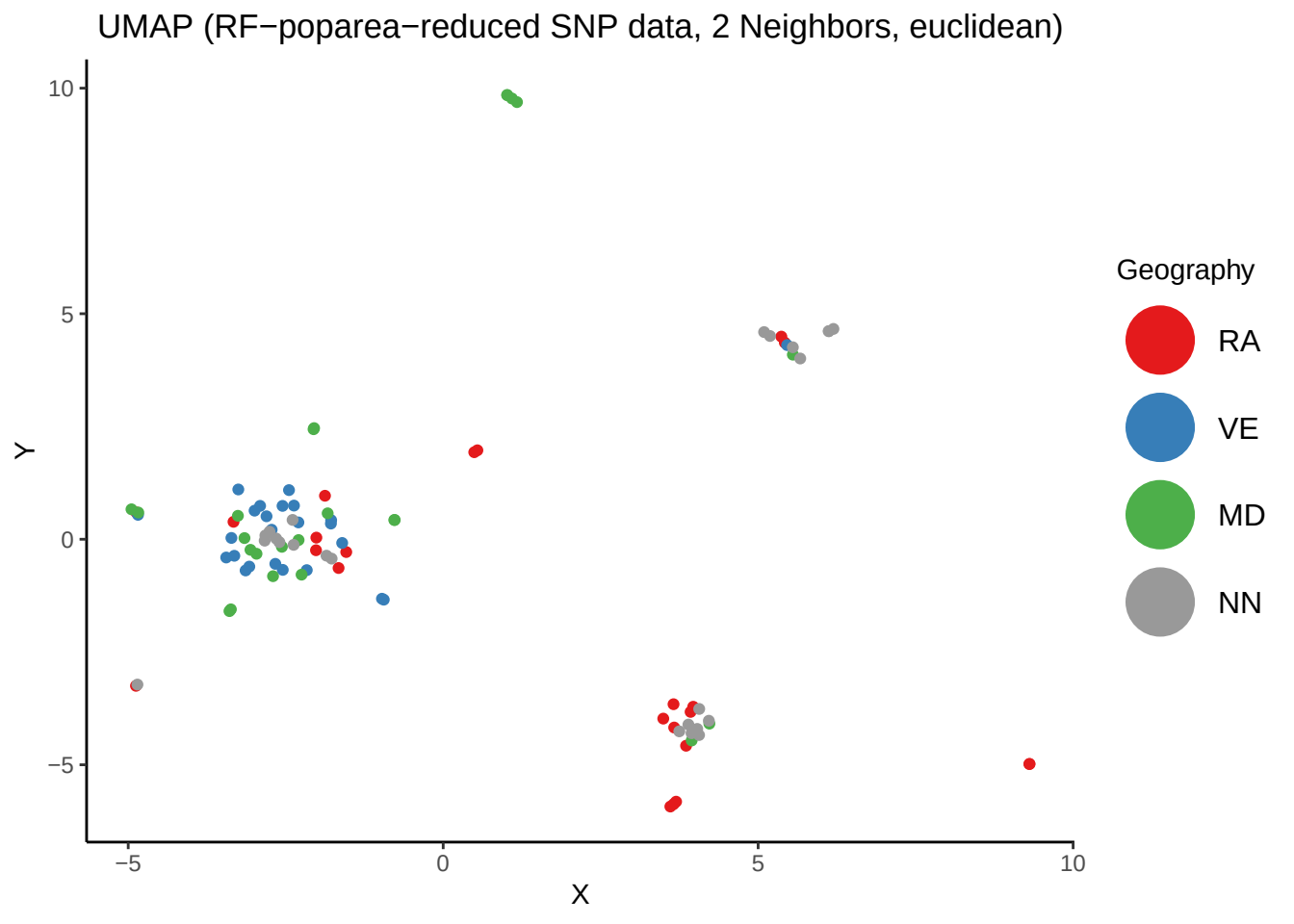

UMAP (RF−poparea−reduced SNP data, 20 Neighbors, manhattan)
Y
X
2
1
0
−1
−2
−2
−1
0
1
Pop
P01
P02
P03
P04a
P04b
P05
P06
P07
P08
P09
P11
P12

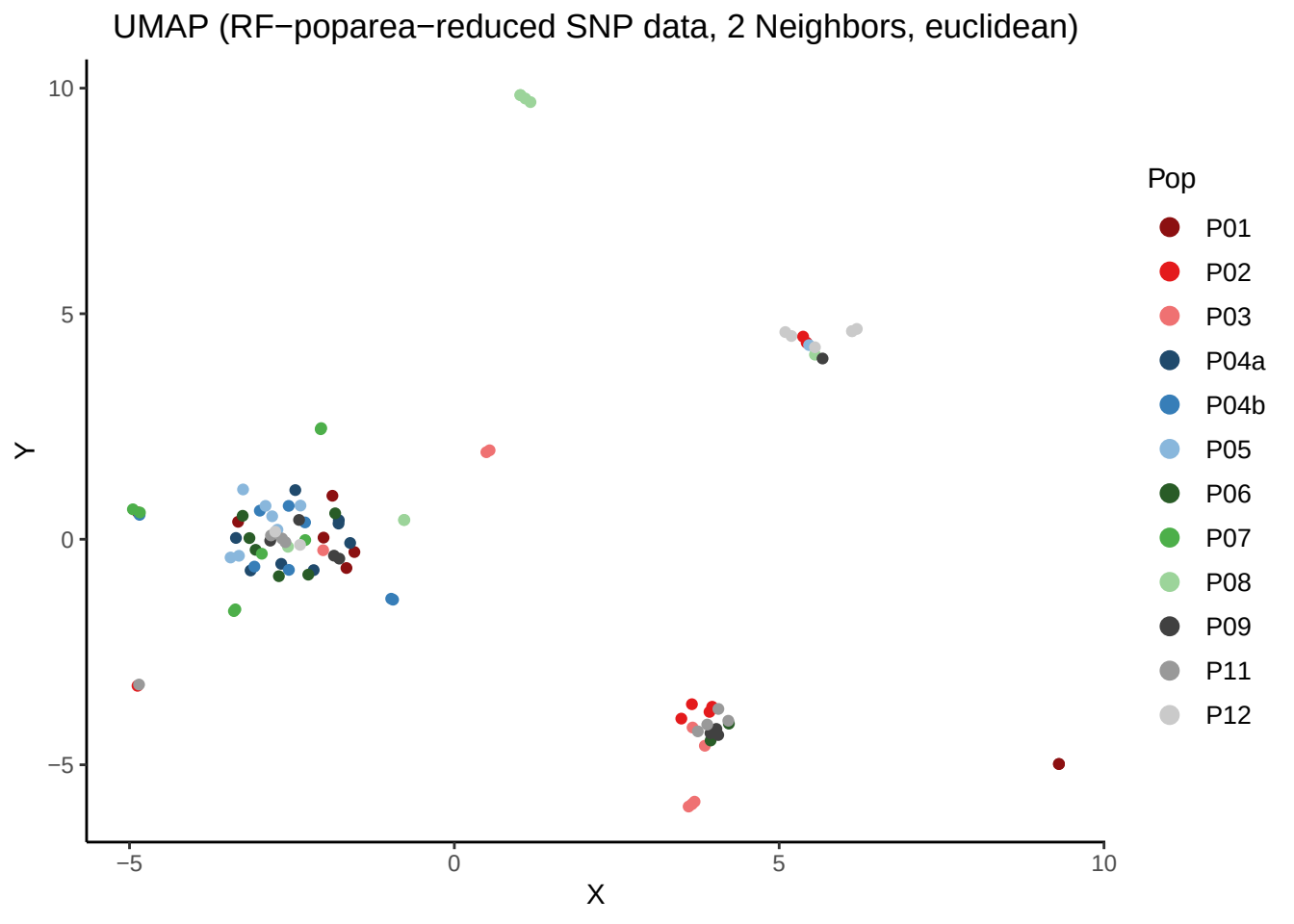

UMAP (RF−poparea−reduced SNP data, 20 Neighbors, manhattan)
Y
X
2
1
0
−1
−2
−2
−1
0
1
Sex
F
M

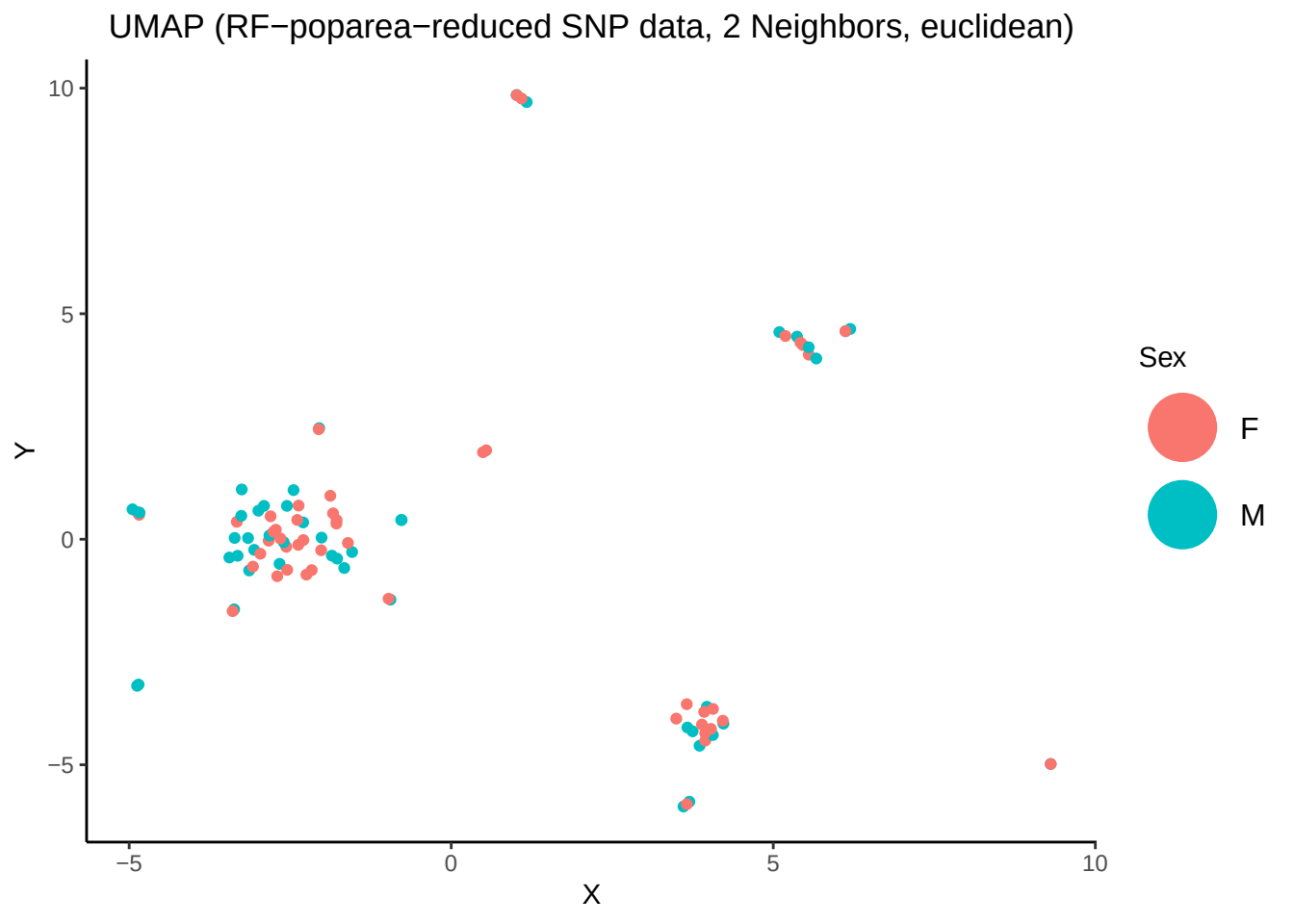

UMAP (RF−poparea−reduced SNP data, 2 Neighbors, cosine)
10
0
−10
Y
−10
0
10
X
Geography
RA
VE
MD
NN

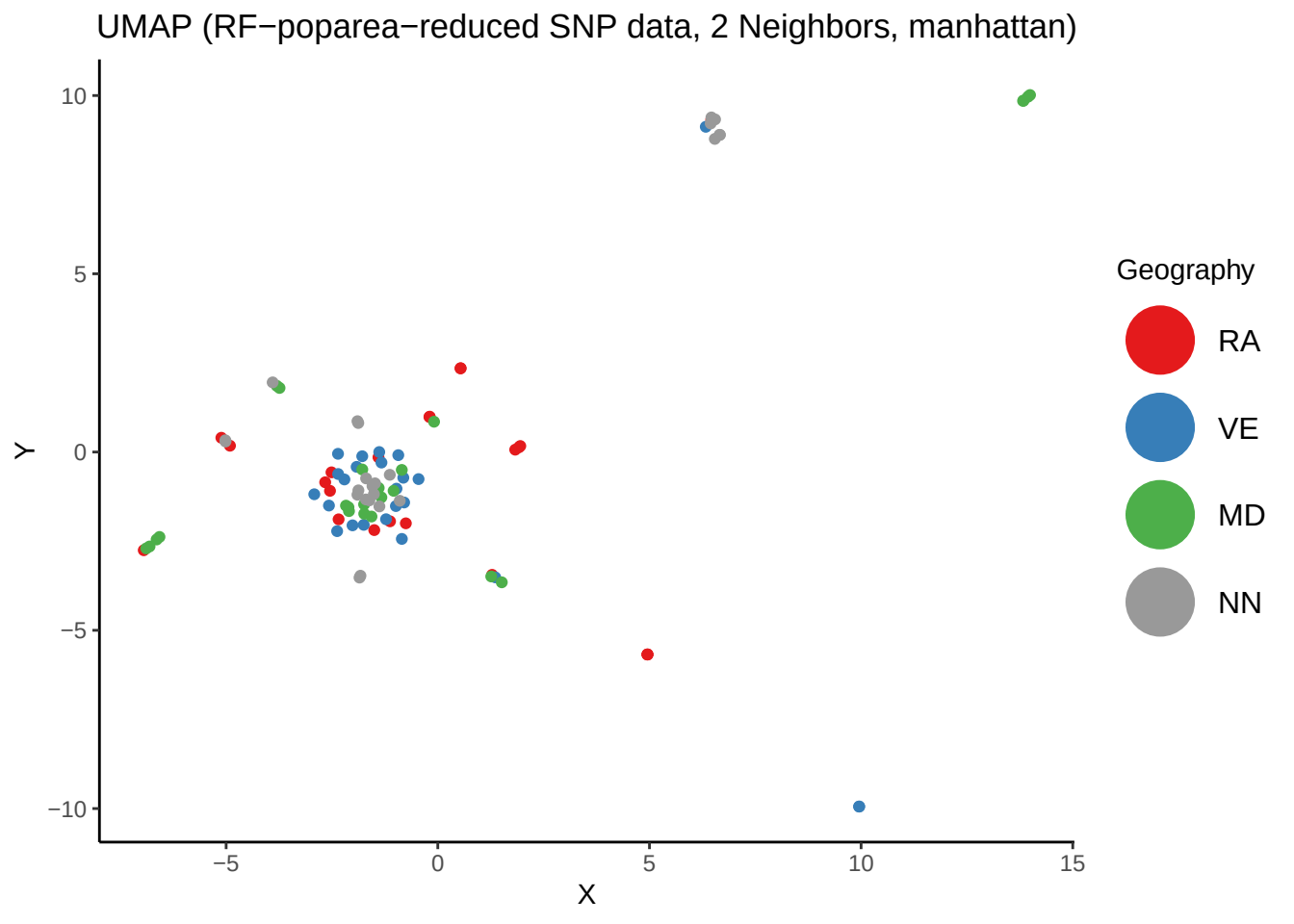

UMAP (RF−poparea−reduced SNP data, 2 Neighbors, cosine)
10
0
−10
Y
−10
0
10
X
Pop
P01
P02
P03
P04a
P04b
P05
P06
P07
P08
P09
P11
P12

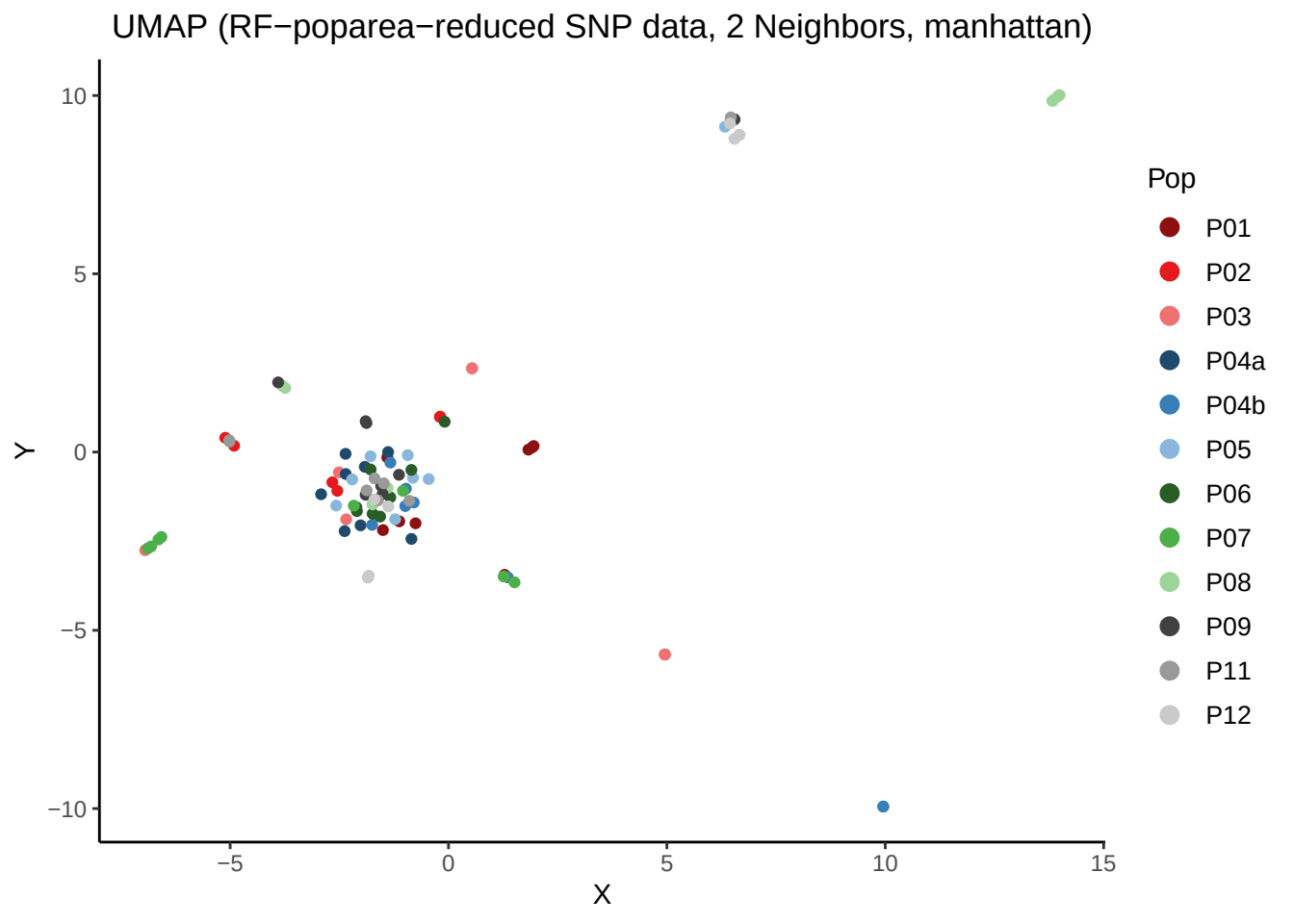

UMAP (RF−poparea−reduced SNP data, 2 Neighbors, cosine)
10
0
−10
Y
−10
0
10
X
Sex
F
M


UMAP (RF−poparea−reduced SNP data, 2 Neighbors, euclidean)
10
5
0
−5
Y
−5
0
5
10
X
Geography
RA
VE
MD
NN

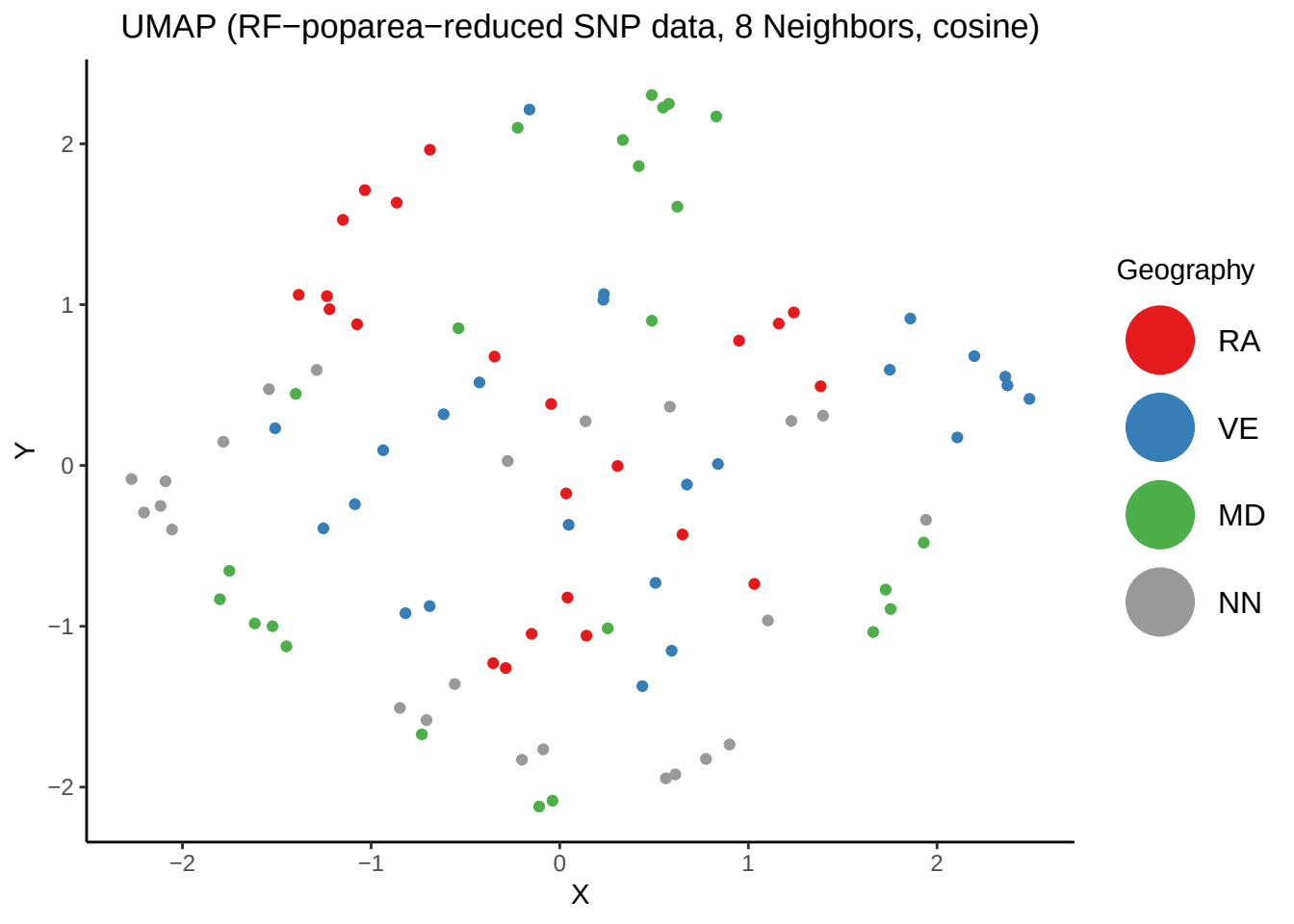

UMAP (RF−poparea−reduced SNP data, 2 Neighbors, euclidean)
10
5
0
−5
Y
−5
0
5
10
X
Pop
P01
P02
P03
P04a
P04b
P05
P06
P07
P08
P09
P11
P12

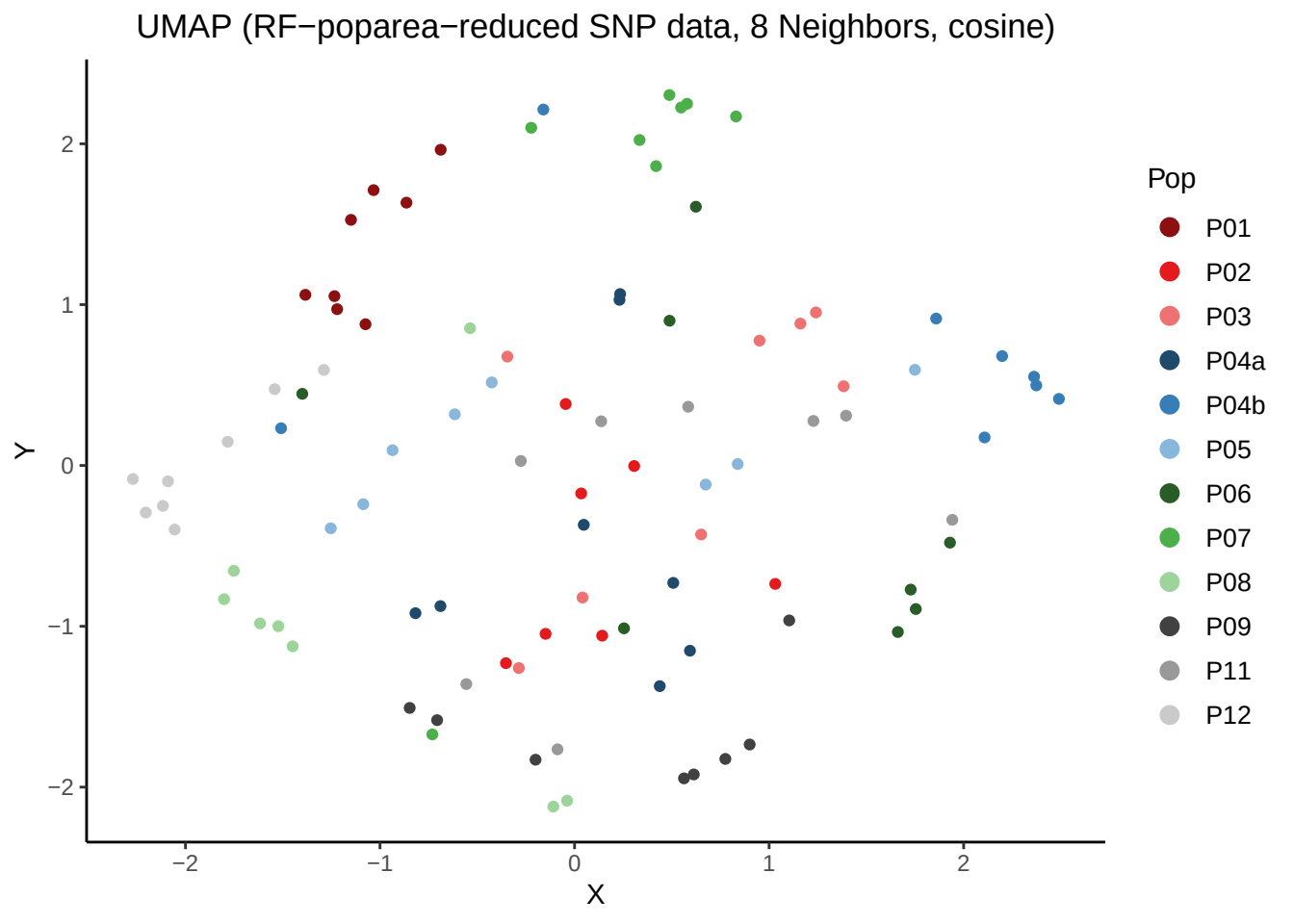

UMAP (RF−poparea−reduced SNP data, 2 Neighbors, euclidean)
10
5
0
−5
Y
−5
0
5
10
X
Sex
F
M

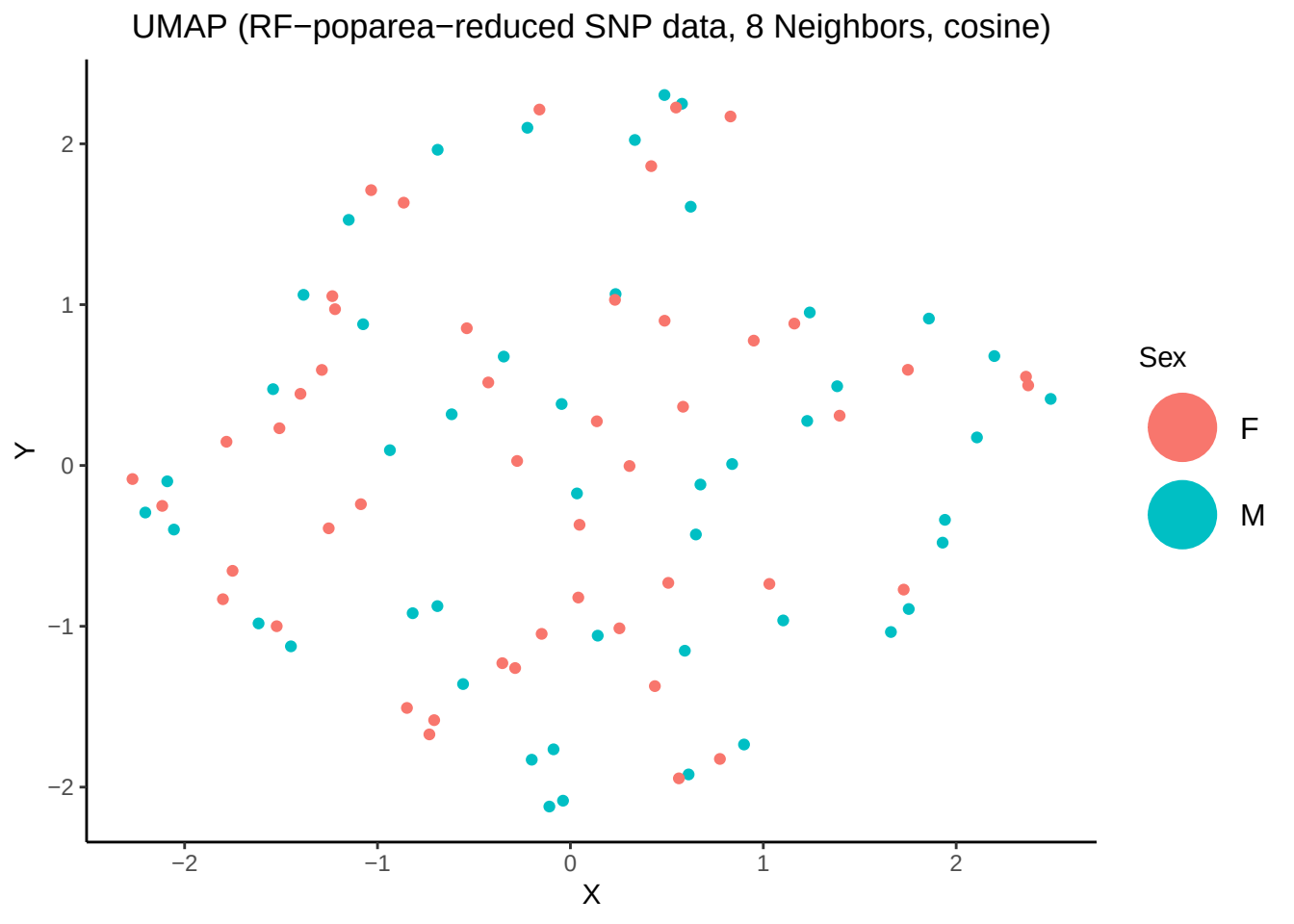

UMAP (RF−poparea−reduced SNP data, 2 Neighbors, manhattan)
10
5
0
−5
−10
Y
−5
0
5
10
15
X
Geography
RA
VE
MD
NN

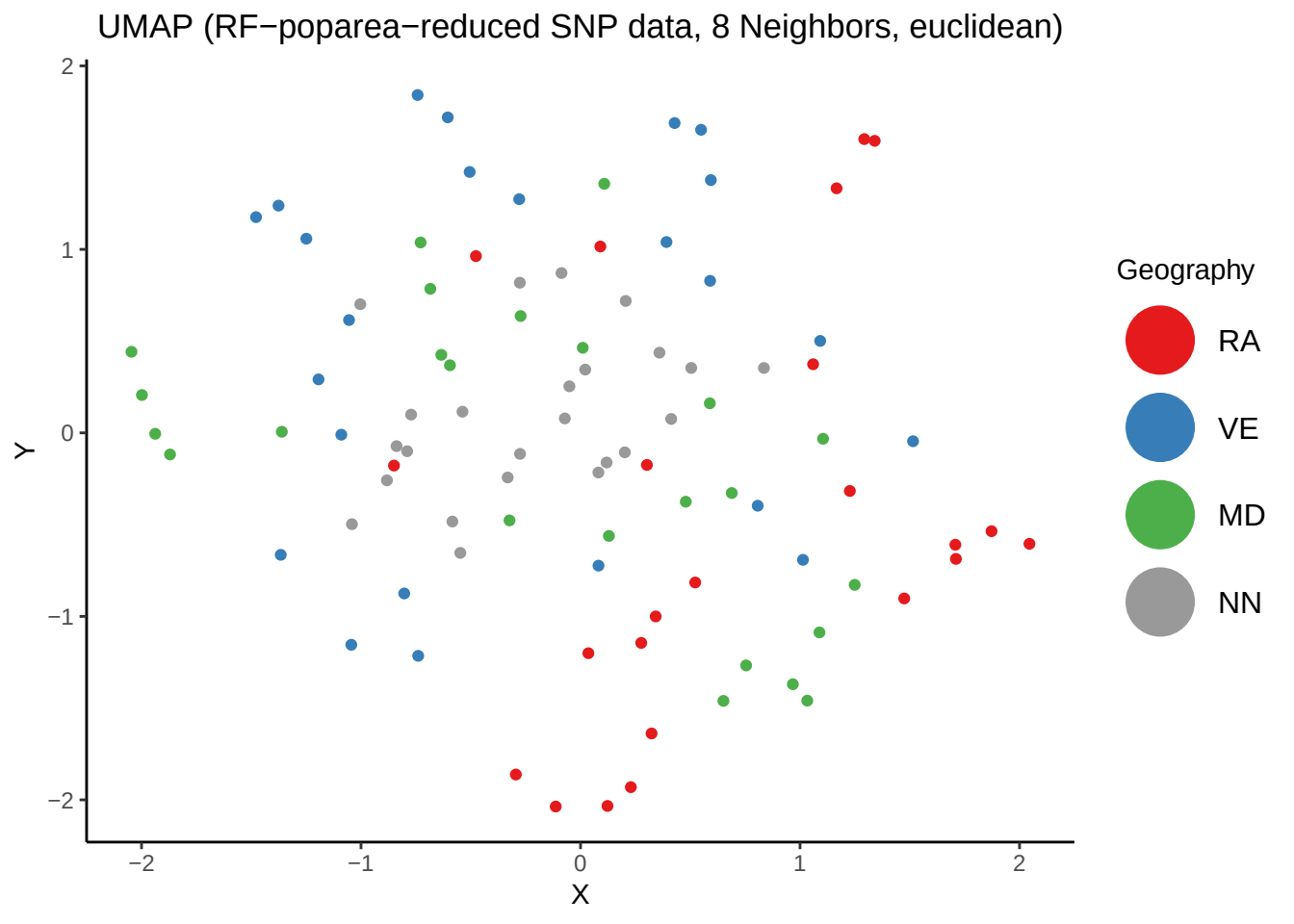

UMAP (RF−poparea−reduced SNP data, 2 Neighbors, manhattan)
10
5
0
−5
−10
Y
−5
0
5
10
15
X
Pop
P01
P02
P03
P04a
P04b
P05
P06
P07
P08
P09
P11
P12

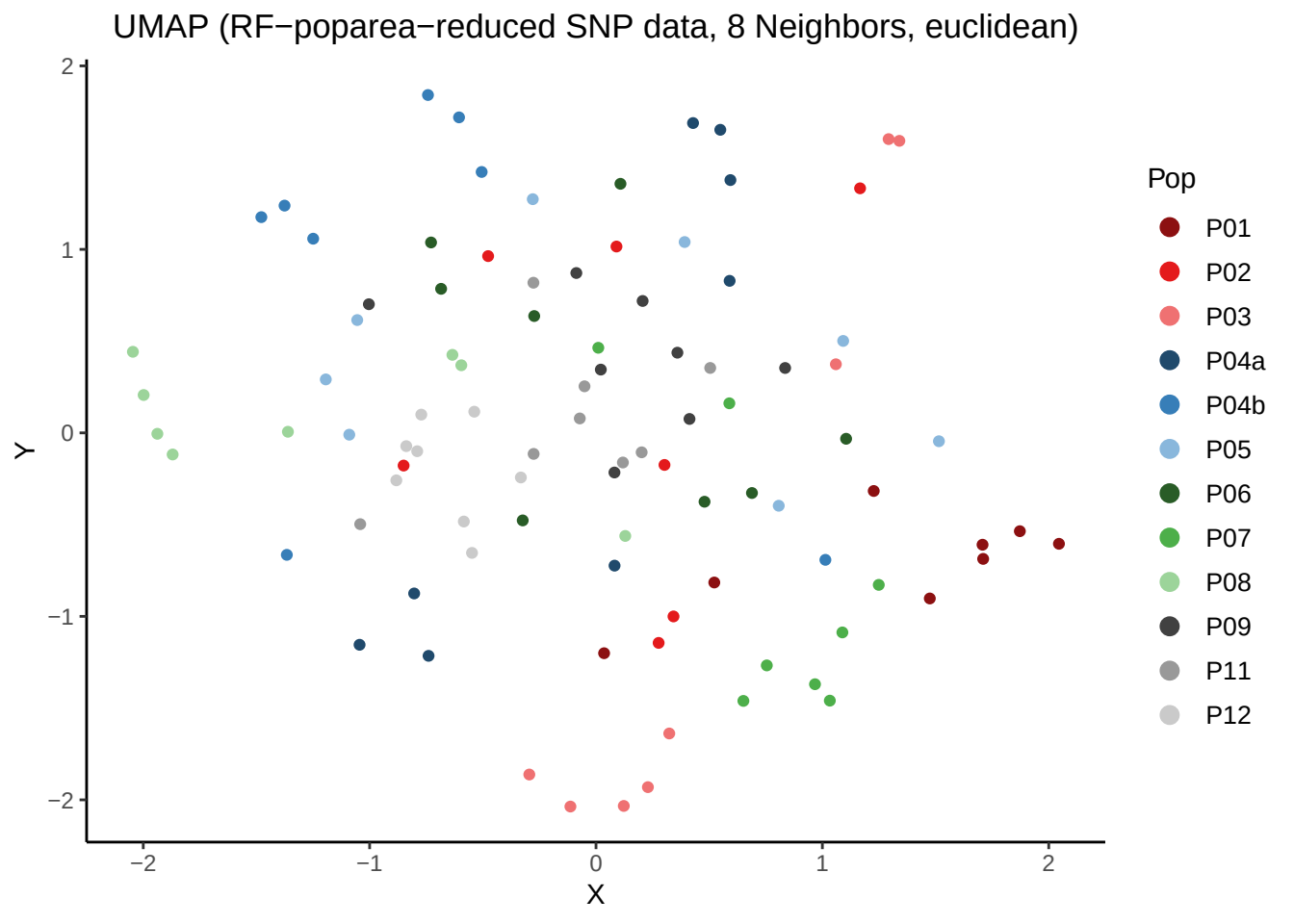
UMAP (RF−poparea−reduced SNP data, 2 Neighbors, manhattan)
10
5
0
−5
−10
Y
−5
0
5
10
15
X
Sex
F
M

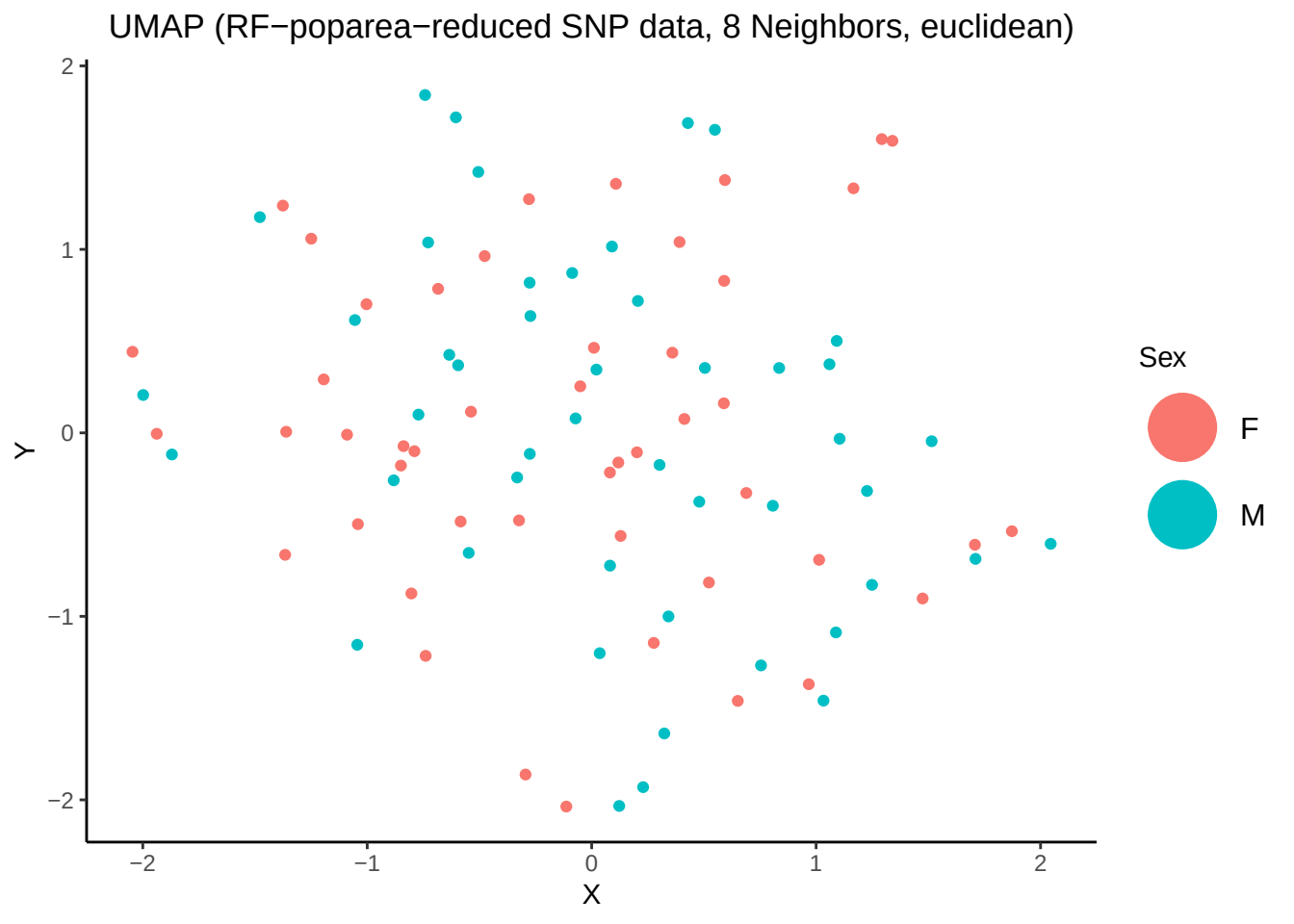

UMAP (RF−poparea−reduced SNP data, 8 Neighbors, cosine)
Y
X
2
1
0
−1
−2
−2
−1
0
1
2
Geography
RA
VE
MD
NN


UMAP (RF−poparea−reduced SNP data, 8 Neighbors, cosine)
Y
X
2
1
0
−1
−2
−2
−1
0
1
2
Pop
P01
P02
P03
P04a
P04b
P05
P06
P07
P08
P09
P11
P12

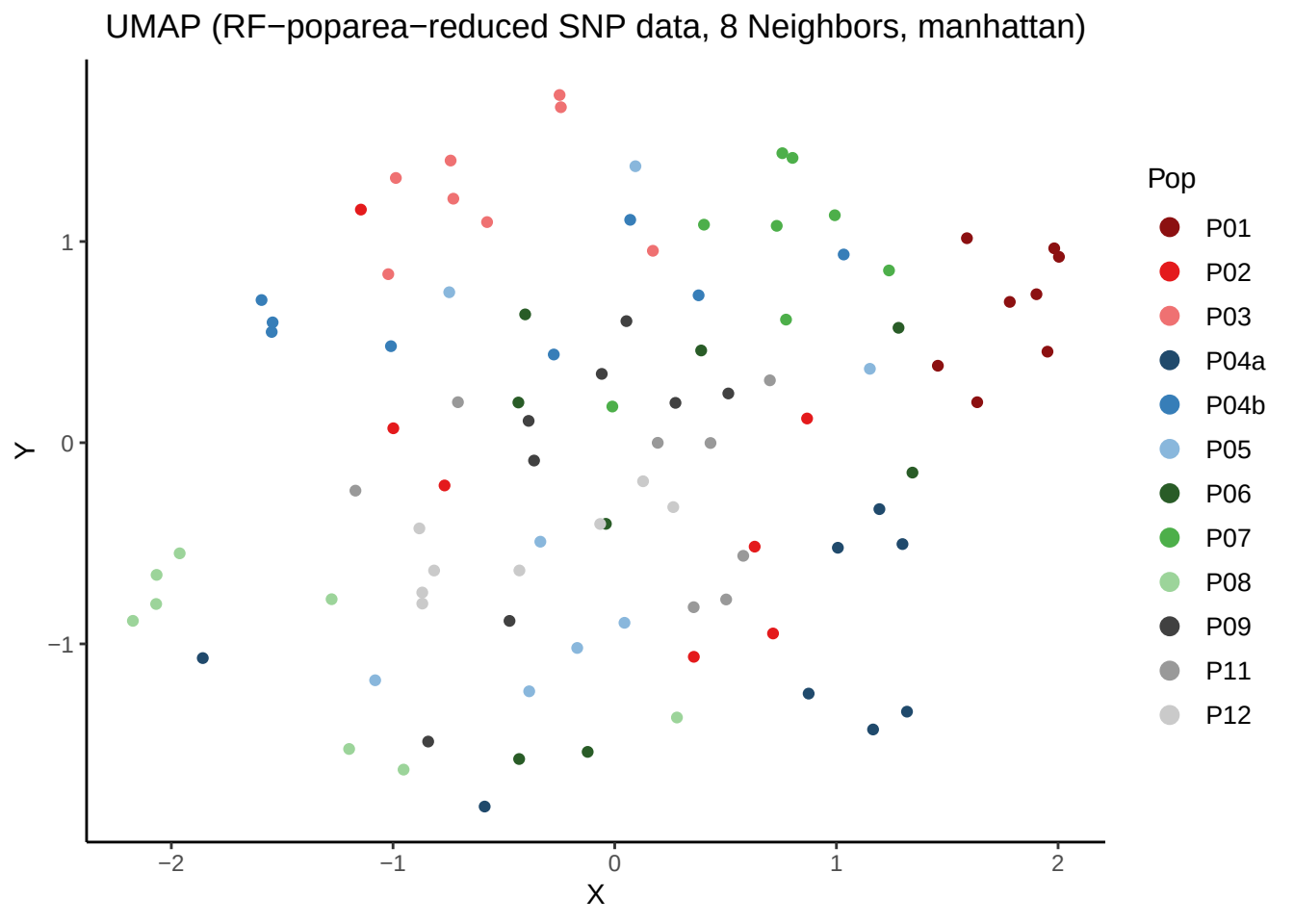

UMAP (RF−poparea−reduced SNP data, 8 Neighbors, cosine)
Y
X
2
1
0
−1
−2
−2
−1
0
1
2
Sex
F
M

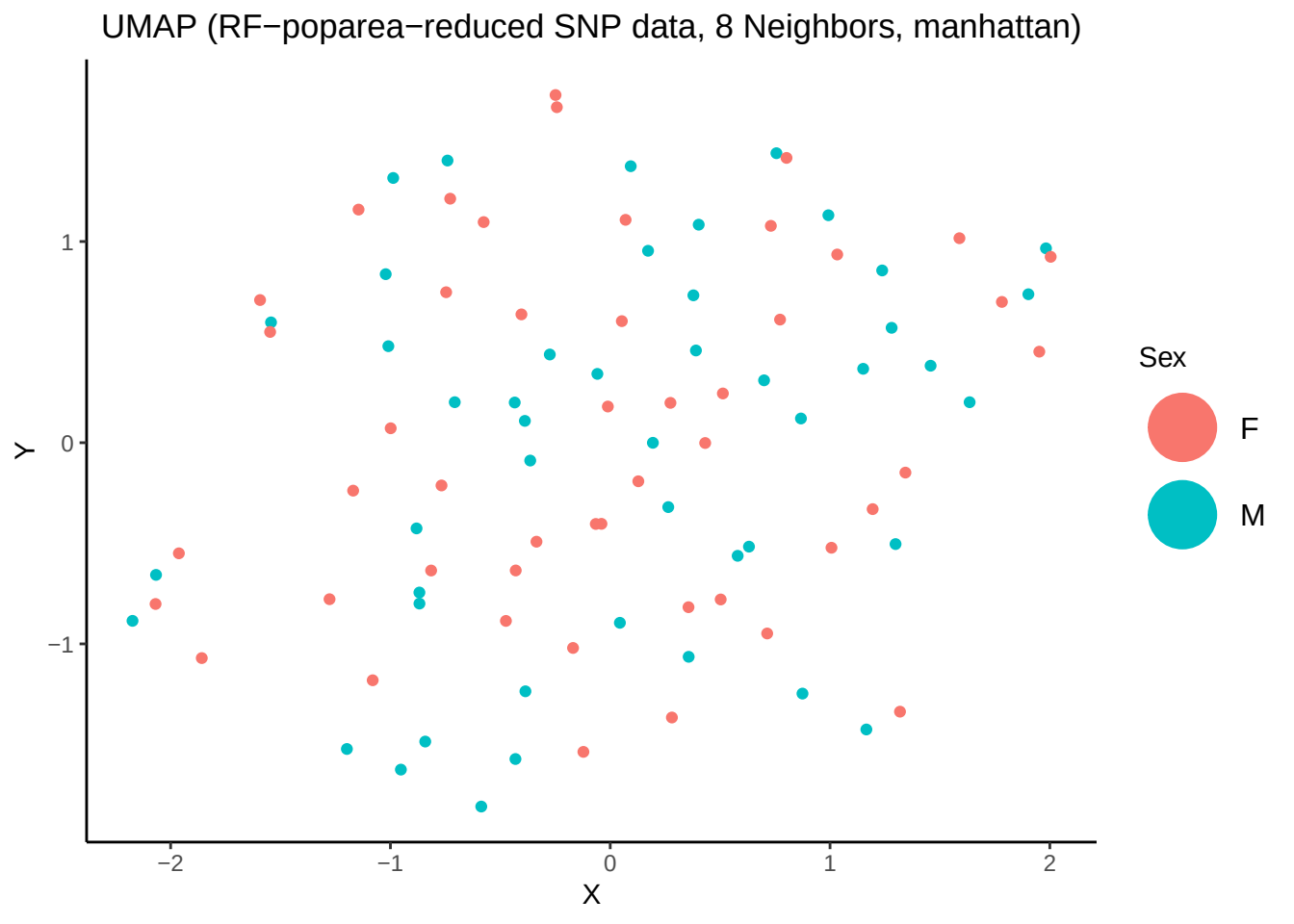

UMAP (RF−poparea−reduced SNP data, 8 Neighbors, euclidean)
Y
X
2
1
0
−1
−2
−2
−1
0
1
2
Geography
RA
VE
MD
NN


UMAP (RF−poparea−reduced SNP data, 8 Neighbors, euclidean)
Y
X
2
1
0
−1
−2
−2
−1
0
1
2
Pop
P01
P02
P03
P04a
P04b
P05
P06
P07
P08
P09
P11
P12


UMAP (RF−poparea−reduced SNP data, 8 Neighbors, euclidean)
Y
X
2
1
0
−1
−2
−2
−1
0
1
2
Sex
F
M

UMAP (RF−poparea−reduced SNP data, 8 Neighbors, manhattan)
Y
X
1
0
−1
−2
−1
0
1
2
Geography
RA
VE
MD
NN


UMAP (RF−poparea−reduced SNP data, 8 Neighbors, manhattan)
Y
X
1
0
−1
−2
−1
0
1
2
Pop
P01
P02
P03
P04a
P04b
P05
P06
P07
P08
P09
P11
P12


UMAP (RF−poparea−reduced SNP data, 8 Neighbors, manhattan)
Y
X
1
0
−1
−2
−1
0
1
2
Sex
F
M